

# EV-T1G3K-1AC32A-5,0M6,0ESBK01 - AC charging cable



1627356

<https://www.phoenixcontact.com/pl/produkty/1627356>

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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, housing: black, gray, PHOENIX CONTACT logo, cable: 5 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                          | 1627356            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales Key                            | XWBAAA             |
| Product Key                          | XWBAAA             |
| Catalog Page                         | Page 24 (C-7-2019) |
| GTIN                                 | 4055626317007      |
| Weight per Piece (including packing) | 2,059 g            |
| Weight per Piece (excluding packing) | 1,987 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                                                                                                                                                    |
| 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                                                                                                                   |
| Locking type      | Locking option for actuating lever with 4 mm U-lock                                                                                                                      |
| 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 |

#### Vehicle charging connector

|        |          |
|--------|----------|
| Width  | 58 mm    |
| Height | 151.1 mm |

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|       |          |
|-------|----------|
| Depth | 236.1 mm |
|-------|----------|

## Material specifications

|                                       |                    |
|---------------------------------------|--------------------|
| Color (Housing)                       | black (9005)       |
|                                       | black (9005)       |
|                                       | silver gray (7001) |
|                                       | black (9005)       |
|                                       | black (9005)       |
|                                       | black (9005)       |
| Material (Vehicle charging connector) | Plastic            |
|                                       | TPE-U              |
|                                       | Silver             |

## Cable/line

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Cable length                   | 5 m                                                                     |
| Wiring standards/regulations   | prEN 50620 / DIN EN 50620                                               |
| Wiring certifications          | VDE                                                                     |
| Cable weight                   | max. 305 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        | 12.8 mm ±0.4 mm                                                         |
| Outer sheath, material         | TPE-U                                                                   |
| Stripping length of the sheath | 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) |
|                                             | IP54                                                                                                                                                                                                           |
| Ambient temperature (operation)             | -30 °C ... 50 °C                                                                                                                                                                                               |
| Ambient temperature (storage/transport)     | -40 °C ... 80 °C                                                                                                                                                                                               |
| Altitude                                    | 5000 m (above sea level)                                                                                                                                                                                       |

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## Standards and regulations

### Standards

|                       |             |
|-----------------------|-------------|
| Standards/regulations | IEC 62196-2 |
|                       | SAE J1772   |

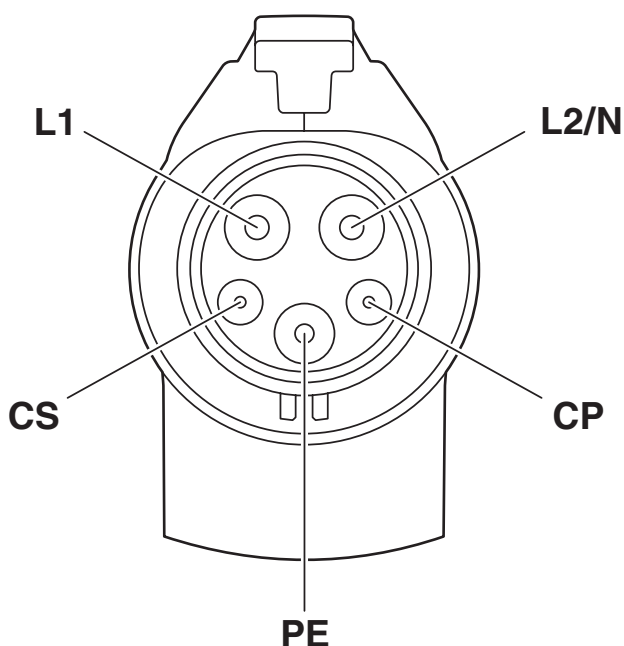
# EV-T1G3K-1AC32A-5,0M6,0ESBK01 - AC charging cable

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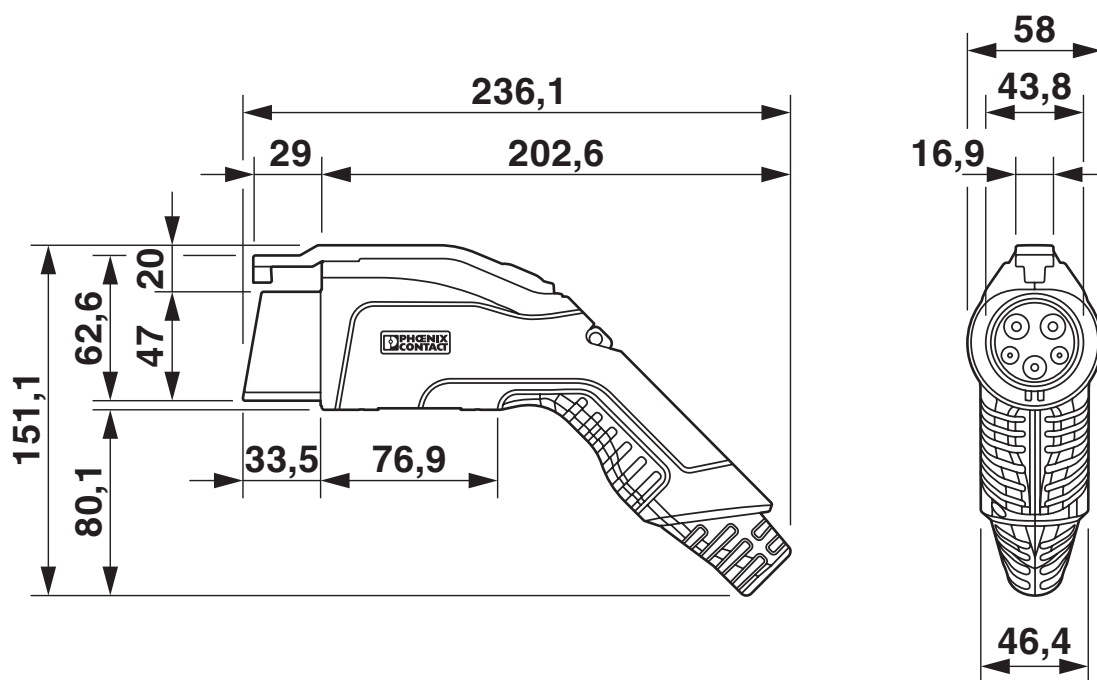
## Drawings

Connection diagram



Pin assignment of the Vehicle Connector

Dimensional drawing



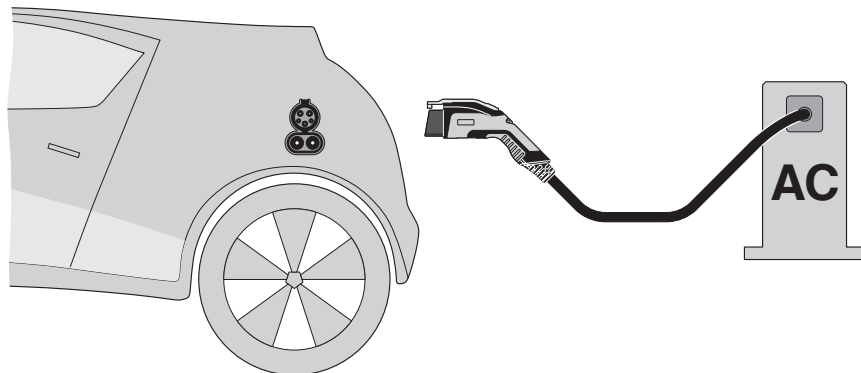
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging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

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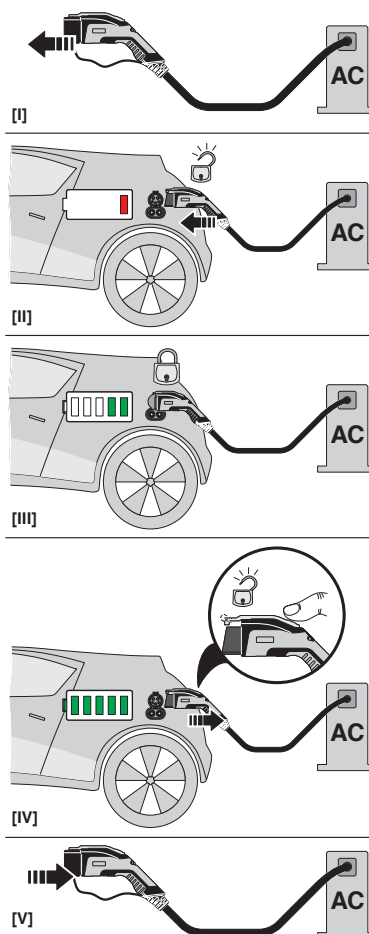
<https://www.phoenixcontact.com/pl/produkty/1627356>

Schematic diagram



## Terminology definition

Schematic diagram



## Operating instructions

# EV-T1G3K-1AC32A-5,0M6,0ESBK01 - AC charging cable



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## Approvals

|  | IECEE CB Scheme        |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: DE1-60844 |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$  | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                  | 32 A                  | -                 | -                           |

|  | VDE Zeichengenehmigung |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: 40045364  |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$  | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                  | 32 A                  | -                 | -                           |

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## Classifications

### ECLASS

|               |          |
|---------------|----------|
| ECLASS-9.0    | 27144705 |
| ECLASS-10.0.1 | 27144705 |
| ECLASS-11.0   | 27144705 |

### ETIM

|          |          |
|----------|----------|
| ETIM 8.0 | EC002897 |
|----------|----------|

### UNSPSC

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

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## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 10;                                                                    |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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## Accessories

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

1624139

<https://www.phoenixcontact.com/pl/produkty/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/pl/produkty/1309758>



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

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

1424481

<https://www.phoenixcontact.com/pl/produkty/1424481>



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

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