

AC charging cable - EV-T1G2K-1AC32A-12,0M10ASBK01 - 1628418

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AC charging cable, With vehicle charging connector and open cable end, With protective cap, With locking option for padlock, Housing color black-gray, For charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, For installation at charging stations for electromobility (EVSE), Type 1, SAE J1772, IEC 62196-2, 32 A / 250 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 12 m, black, straight, NOTE: Signal transmission is dependent on the cable length and may be adversely affected.

Product Description


AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 1 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

Your advantages

- ✓ Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- ✓ Silver-plated surface of the power and signal contacts
- ✓ Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- ✓ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✓ Tested in accordance with selected tests of automotive standards LV124, LV214, LV215-2
- ✓ Reliable function of the locking lever with additional seal
- ✓ Optional locking option with a U-lock
- ✓ Consistent longitudinal water tightness prevents water ingress in the cable



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 446561 |
| GTIN | 4055626446561 |

Technical data

Product definition

| | |
|------|--|
| Type | AC charging cable |
| | With vehicle charging connector and open cable end |
| | With protective cap |
| | With locking option for padlock |
| | Housing color black-gray |

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Technical data

Product definition

| | |
|-------------------------------------|--|
| Application | For charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets |
| | For installation at charging stations for electromobility (EVSE) |
| Affixed logo | "PHOENIX CONTACT" logo |
| Design | C-Line |
| Standards/regulations | SAE J1772 |
| | IEC 62196-2 |
| Charging standard | Type 1 |
| Charging mode | Level 2 |
| 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). |
| | Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1). |

Dimensions

| | |
|------------------|---------------------------------------|
| Height | 151.1 mm (Vehicle charging connector) |
| Width | 58 mm (Vehicle charging connector) |
| Depth | 236.1 mm (Vehicle charging connector) |
| Conductor length | 12 m |
| Stripping length | 70 mm ±5 mm |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -30 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Max. altitude | 5000 m (above sea level) |
| Degree of protection | 3R (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) |

Electrical properties

| | |
|-----------------------------------|------------------------|
| Maximum charging power | 8 kW |
| Number of phases | 1 |
| Number of power contacts | 3 (L1, N, PE) |
| Rated current of power contacts | 32 A |
| Rated voltage for power contacts | 250 V AC |
| Number of signal contacts | 2 (CP, CS) |
| Rated current for signal contacts | 2 A |
| Rated voltage for signal contacts | 30 V AC |
| Type of signal transmission | Pulse width modulation |

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Technical data

Electrical properties

| | |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Resistor coding | 480 Ω (Lever actuated) |
| | 150 Ω (Lever not actuated) |

Mechanical properties

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

Design

| | |
|-------------------------|------------|
| Design line | C-Line |
| Housing color | black |
| Mating face color | black |
| Color handle area | gray |
| Actuating element color | silver |
| Color protective cap | black |
| Customer variations | On request |

Material

| | |
|------------------------------|--------------|
| Housing material | Plastic |
| Material handle area | Soft plastic |
| Actuating lever material | Metal |
| Material protective cap | Soft plastic |
| Material mating face | Plastic |
| Flammability rating | V0 |
| Material surface of contacts | Ag |

Cable

| | |
|------------------------------|---|
| Cable structure | 3 x 10 AWG + 1 x 18 AWG |
| Wiring standards/regulations | UL 62 |
| | FFSO7.E343212 |
| External cable diameter | 17 mm \pm 0.4 mm |
| Type of conductor | straight |
| Cable resistance | \leq 0.00351 Ω /m (based on a power core, at an ambient temperature of 20°C) |
| Outer sheath, material | TPE |
| External sheath, color | black |
| Minimum bending radius | 255 mm (15 x diameter) |
| Cable weight | max. 385 kg/km |

Locking

| | |
|--------------|---|
| Locking type | Locking option for actuating lever with 4 mm U-lock |
|--------------|---|

Environmental Product Compliance

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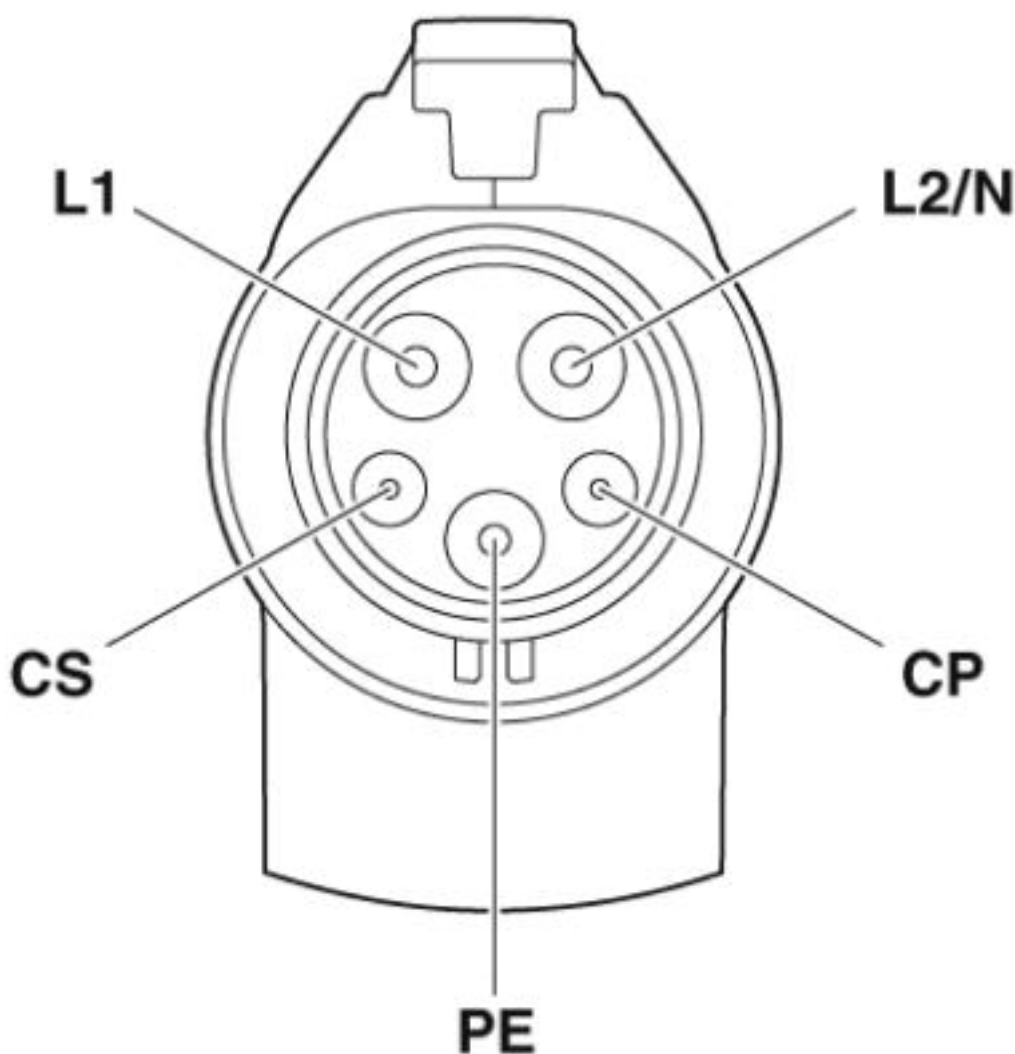
Technical data

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 10; |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

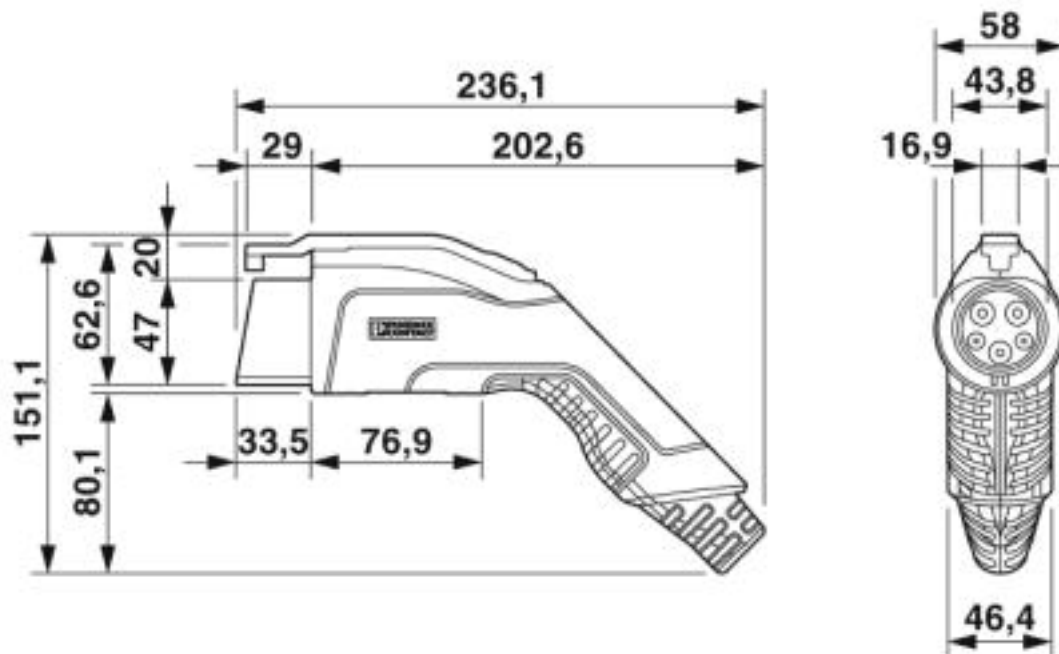
Connection diagram



Pin assignment of the Vehicle Connector

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Dimensional drawing



Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

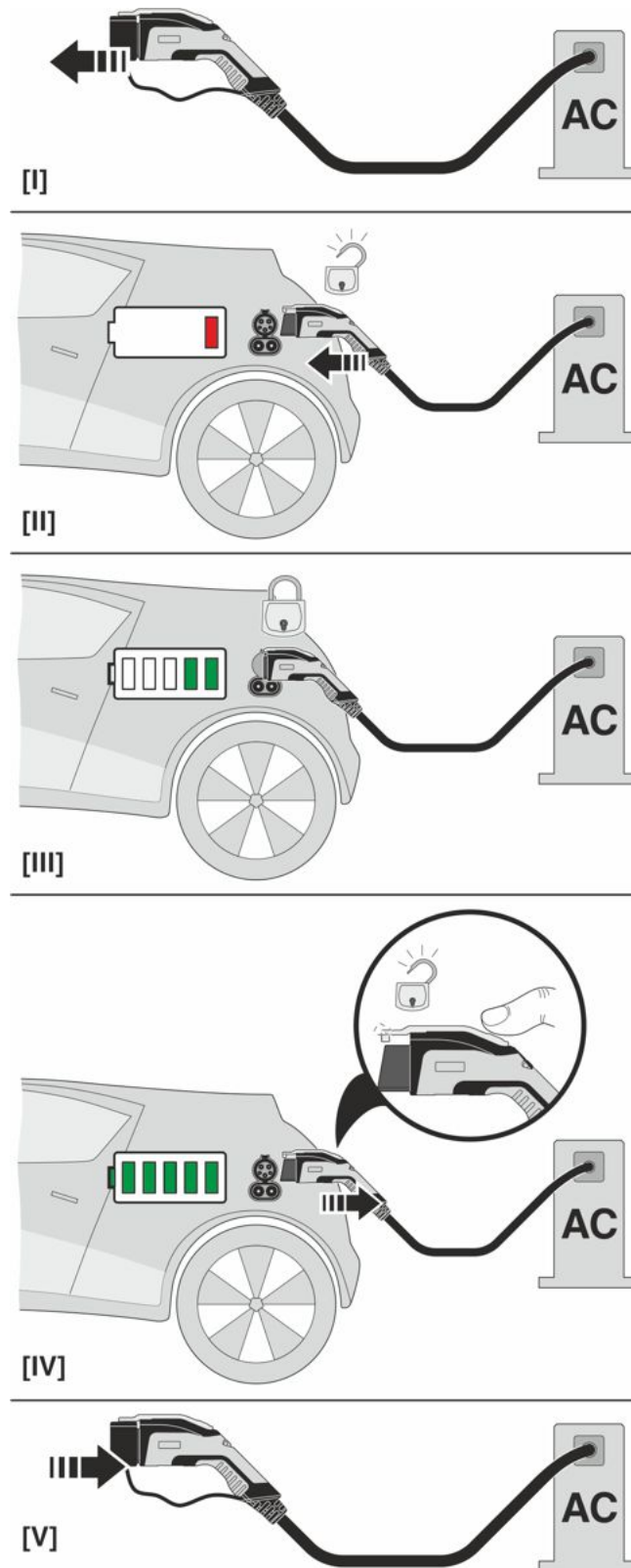
Schematic diagram



Terminology definition

AC charging cable - EV-T1G2K-1AC32A-12,0M10ASBK01 - 1628418

Schematic diagram



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Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27144705 |
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27059290 |
| eCl@ss 6.0 | 27279220 |
| eCl@ss 7.0 | 27440103 |
| eCl@ss 8.0 | 27449001 |
| eCl@ss 9.0 | 27144705 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002839 |
| ETIM 6.0 | EC002897 |
| ETIM 7.0 | EC002897 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |
| UNSPSC 18.0 | 39121522 |
| UNSPSC 19.0 | 39121522 |
| UNSPSC 20.0 | 39121522 |
| UNSPSC 21.0 | 39121522 |

Approvals

Approvals

Approvals


cULus Recognized

Ex Approvals

Approval details

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Approvals

| | | |
|--------------------|---|--|
| cULus Recognized |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E473195-20160303 |
| Nominal voltage UN | 250 V | |
| Nominal current IN | 32 A | |
| mm²/AWG/kcmil | 10 | |

Accessories

Accessories

Park position

Park position - EV-T1AC-PARK - 1624139



Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), Type 1, SAE J1772, Front mounting

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