

## AC charging cable - EV-TAG3PK-1AC32A-10M6,0ESBK01 - 1628210

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Mobile AC charging cable, with vehicle charging connector and infrastructure charging plug, with protective caps, Housing color black-gray, with locking option for padlock, 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 electromobility (EVSE), Type 1, Type 2, IEC 62196-2, SAE J1772, 32 A / 250 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 10 m, black, straight, NOTE: The capacitance between CP and PE exceeds the normative guideline value of 1500 pF.

### Product Description

Mobile AC charging cable with Vehicle Connector and Infrastructure Plug for charging electric vehicles (EV) with alternating current (AC), via type 1 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets 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         | <br>4 055626 398808 |
| GTIN         | 4055626398808                                                                                           |

### Technical data

#### Product definition

|      |                                                                  |
|------|------------------------------------------------------------------|
| Type | Mobile AC charging cable                                         |
|      | with vehicle charging connector and infrastructure charging plug |
|      | with protective caps                                             |
|      | Housing color black-gray                                         |
|      | with locking option for padlock                                  |

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## Technical data

### Product definition

|                                     |                                                                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                         | 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 electromobility (EVSE)                                                |
| Affixed logo                        | "PHOENIX CONTACT" logo                                                                                                                                |
| Design                              | C-Line                                                                                                                                                |
| Standards/regulations               | IEC 62196-2                                                                                                                                           |
|                                     | SAE J1772                                                                                                                                             |
| Charging standard                   | Type 1                                                                                                                                                |
|                                     | Type 2                                                                                                                                                |
| Charging mode                       | Mode 3, Case B                                                                                                                                        |
| Normative cable length restrictions | NOTE: The capacitance between CP and PE exceeds the normative guideline value of 1500 pF.                                                             |
|                                     | Signal transmission may be adversely affected (IEC 61851-1, Annex A, Table A.2, Note c).                                                              |
|                                     | 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)   |
|                  | 131.8 mm (Infrastructure charging plug) |
| Width            | 58 mm (Vehicle charging connector)      |
|                  | 58 mm (Infrastructure charging plug)    |
| Depth            | 236.1 mm (Vehicle charging connector)   |
|                  | 233.4 mm (Infrastructure charging plug) |
| Conductor length | 10 m                                    |

### 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                    | 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 (Protective cap)                                                                                                                                                                                          |

### 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      |

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## Technical data

### Electrical properties

|                                   |                                          |
|-----------------------------------|------------------------------------------|
| 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                   |
| Note on the connection method     | Crimp connection, cannot be disconnected |
| Resistor coding                   | 480 $\Omega$ (Lever actuated)            |
|                                   | 150 $\Omega$ (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 6.0 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                                    |
| Wiring standards/regulations | prEN 50620 / DIN EN 50620                                                            |
| Wiring class                 | Class 5                                                                              |
| Wiring certifications        | VDE                                                                                  |
| External cable diameter      | 12.8 mm $\pm$ 0.4 mm                                                                 |
| Type of conductor            | straight                                                                             |
| Cable resistance             | $\leq$ 0.0033 $\Omega$ /m (based on a power core, at an ambient temperature of 20°C) |
| Outer sheath, material       | TPE-U                                                                                |
| External sheath, color       | black                                                                                |
| Minimum bending radius       | 96 mm (7.5 x diameter)                                                               |

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### Technical data

#### Cable

|              |                |
|--------------|----------------|
| Cable weight | max. 305 kg/km |
|--------------|----------------|

#### Locking

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

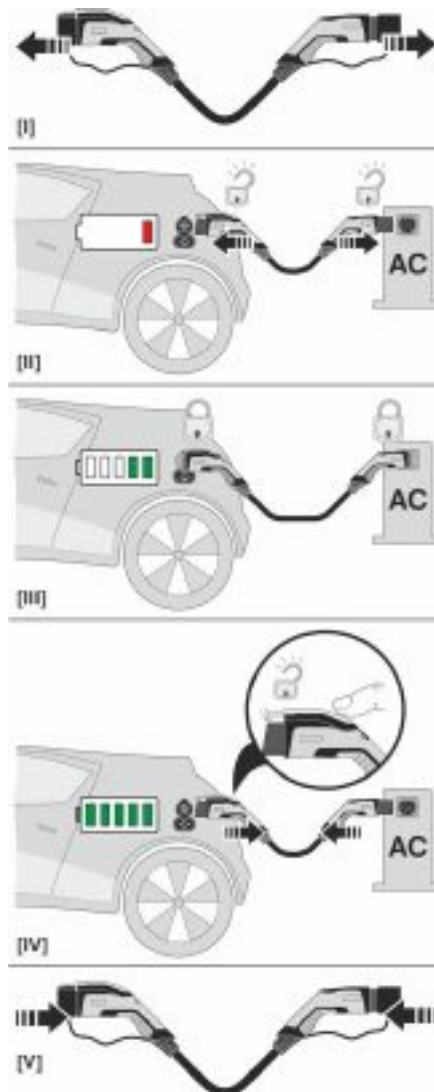
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| 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

## AC charging cable - EV-TAG3PK-1AC32A-10M6,0ESBK01 - 1628210

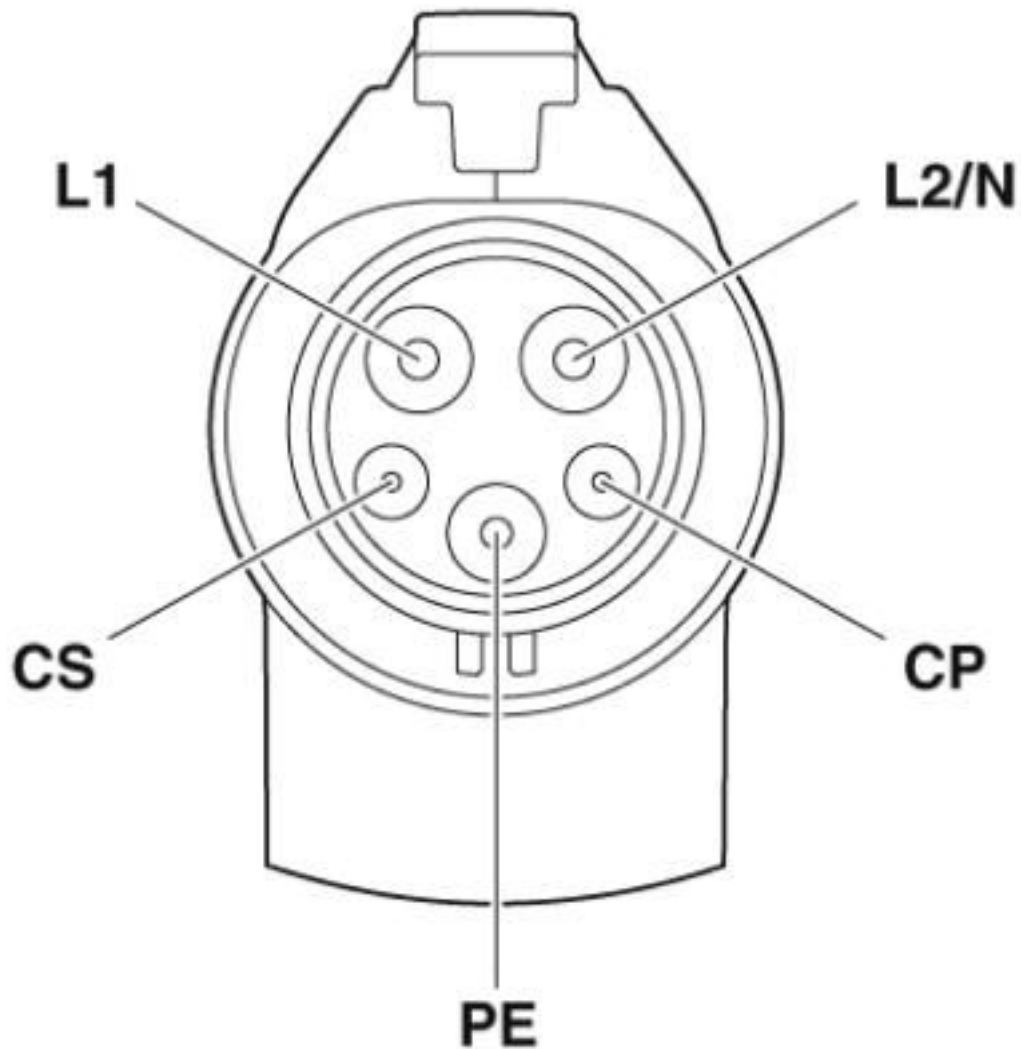
Schematic diagram



Operating instructions

## AC charging cable - EV-TAG3PK-1AC32A-10M6,0ESBK01 - 1628210

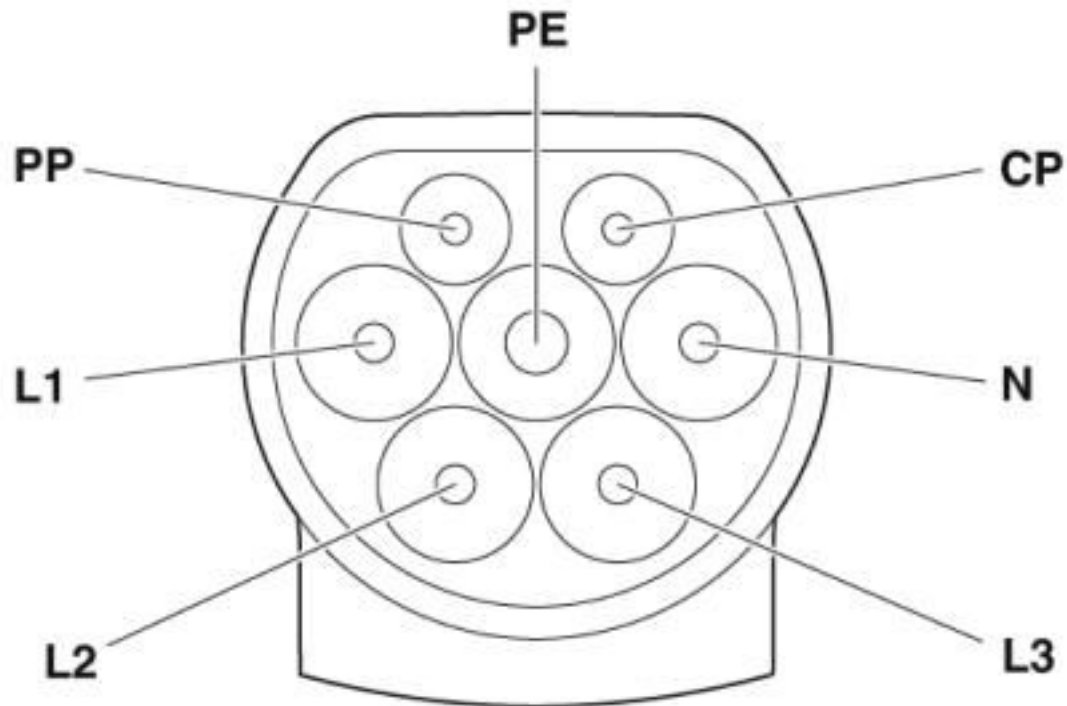
Connection diagram



Pin assignment of the Vehicle Connector

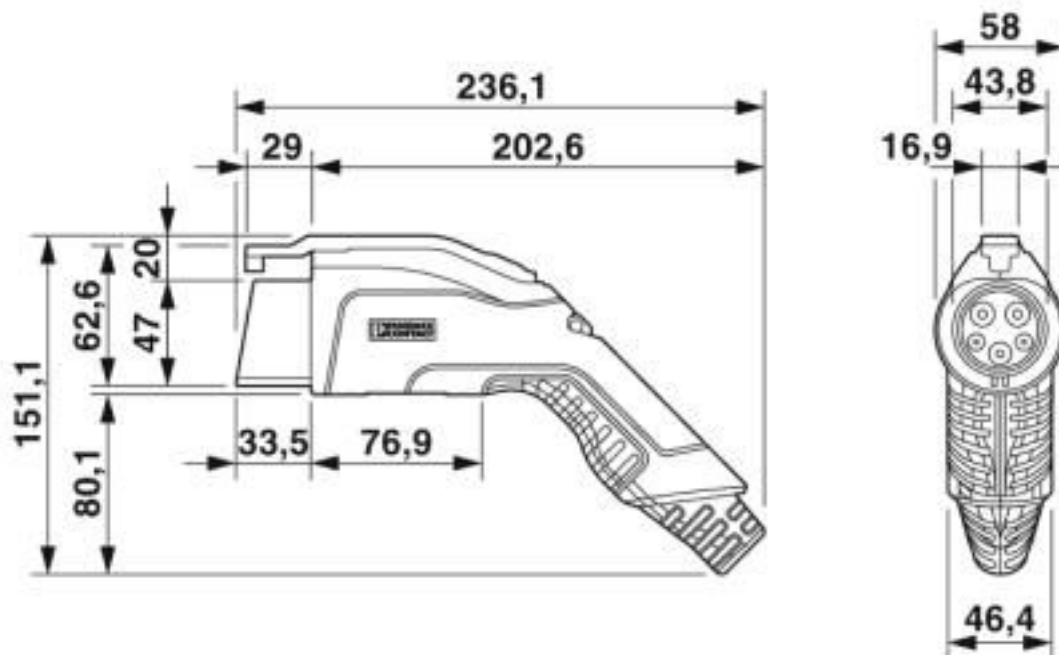
## AC charging cable - EV-TAG3PK-1AC32A-10M6,0ESBK01 - 1628210

Connection diagram



Pin assignment of Infrastructure Plug

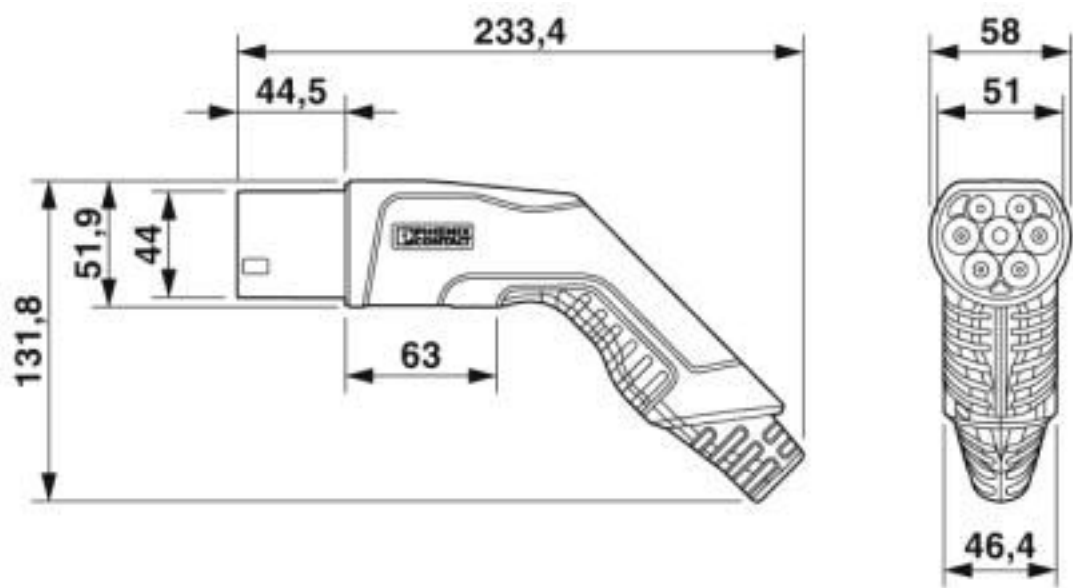
Dimensional drawing



Vehicle connector

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Dimensional drawing



Infrastructure plug

Schematic diagram



Terminology definition

Classifications

eCI@ss

|               |          |
|---------------|----------|
| eCI@ss 10.0.1 | 27144705 |
| eCI@ss 4.0    | 27140800 |
| eCI@ss 4.1    | 27140800 |
| eCI@ss 5.0    | 27143400 |
| eCI@ss 5.1    | 27143400 |

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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27143400 |
| eCl@ss 7.0 | 27449001 |
| 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

IECEE CB Scheme / VDE Zeichengenehmigung

#### Ex Approvals

### Approval details

|                    |                     |                                                           |           |
|--------------------|---------------------|-----------------------------------------------------------|-----------|
| IECEE CB Scheme    | <b>CB</b><br>scheme | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60858 |
| Nominal voltage UN | 250 V               |                                                           |           |
| Nominal current IN | 32 A                |                                                           |           |

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## Approvals

|                        |                                                                                   |                                                                                                                                                                                                           |          |
|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40045426 |
| Nominal voltage UN     | 250 V                                                                             |                                                                                                                                                                                                           |          |
| Nominal current IN     | 32 A                                                                              |                                                                                                                                                                                                           |          |

## Accessories

### Accessories

#### Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E10 - 1405214



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Socket Outlet - EV-T2M3SE24-3AC32A-0,7M6,0E10 - 1405216



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 24 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

### 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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