

# EV-TAG3PC-1AC20A-5,0M2,5ESBK01 - AC charging cable



1628027

<https://www.phoenixcontact.com/pl/produkty/1628027>

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CHARX connect comfort, 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, with protective cap, Type 1, Type 2, IEC 62196-2, SAE J1772, housing: black, gray, PHOENIX CONTACT logo, cable: 5 m, black, straight

## 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                          | 1628027            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales Key                            | XWBAEE             |
| Product Key                          | XWBAEE             |
| Catalog Page                         | Page 32 (C-7-2019) |
| GTIN                                 | 4055626377391      |
| Weight per Piece (including packing) | 1,763 g            |
| Weight per Piece (excluding packing) | 1,763 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>compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE) |
| Type              | Mobile AC charging cable<br>with vehicle charging connector and infrastructure charging plug                                                                                                                   |
| Design            | with protective cap                                                                                                                                                                                            |
| Locking type      | No locking option for U-lock                                                                                                                                                                                   |
| Affixed logo      | PHOENIX CONTACT logo                                                                                                                                                                                           |
| Charging mode     | Mode 3, Case B                                                                                                                                                                                                 |
| Charging standard | Type 1<br>Type 2                                                                                                                                                                                               |

### 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                | 5 kW                                                               |
| Charging current              | 20 A                                                               |

#### Power contact

|               |               |
|---------------|---------------|
| Number        | 3 (L1, N, PE) |
| Rated voltage | 250 V AC      |
| Rated current | 20 A          |

#### Signal contact

|               |            |
|---------------|------------|
| Number        | 2 (CP, CS) |
| Rated voltage | 30 V AC    |
| Rated current | 2 A        |

### Dimensions

|        |          |
|--------|----------|
| Width  | 58 mm    |
| Height | 131.8 mm |
| Depth  | 233.4 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            |
|                                       | Plastic            |
|                                       | TPE-U              |
|                                       | Silver             |

## Cable/line

|                              |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| Cable length                 | 5 m                                                                      |
| Wiring standards/regulations | prEN 50620 / DIN EN 50620                                                |
| Wiring certifications        | VDE                                                                      |
| Cable weight                 | max. 163 kg/km                                                           |
| Cable type                   | Class 5                                                                  |
| Cable type                   | straight                                                                 |
| Cable structure              | 3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                        |
| External cable diameter      | 10.2 mm ±0.3 mm                                                          |
| Outer sheath, material       | TPE-U                                                                    |
| Cable resistance             | ≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius               | min. 153 mm (15x 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) |
|                                             | 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                                                                                                                                                                                                           |

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|                                         |                          |
|-----------------------------------------|--------------------------|
| Ambient temperature (operation)         | -40 °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 |
|                       | SAE J1772   |

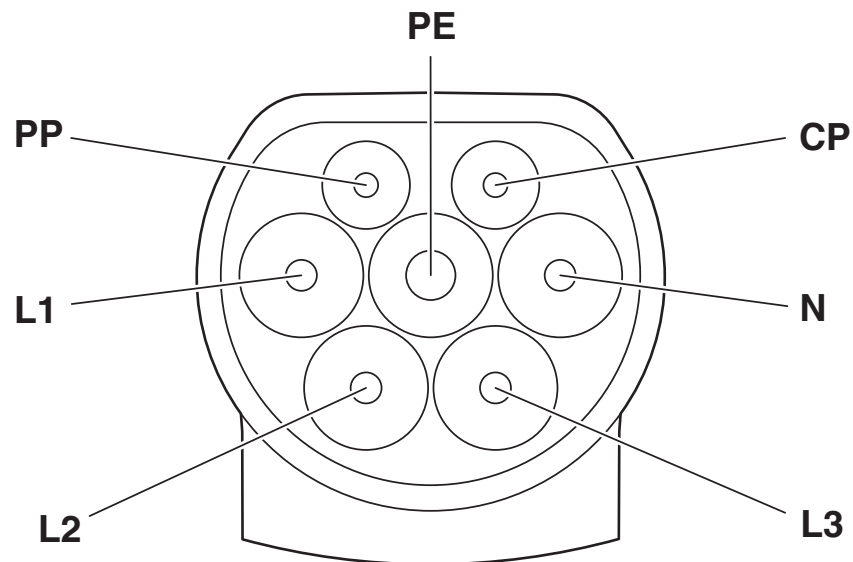
# EV-TAG3PC-1AC20A-5,0M2,5ESBK01 - AC charging cable

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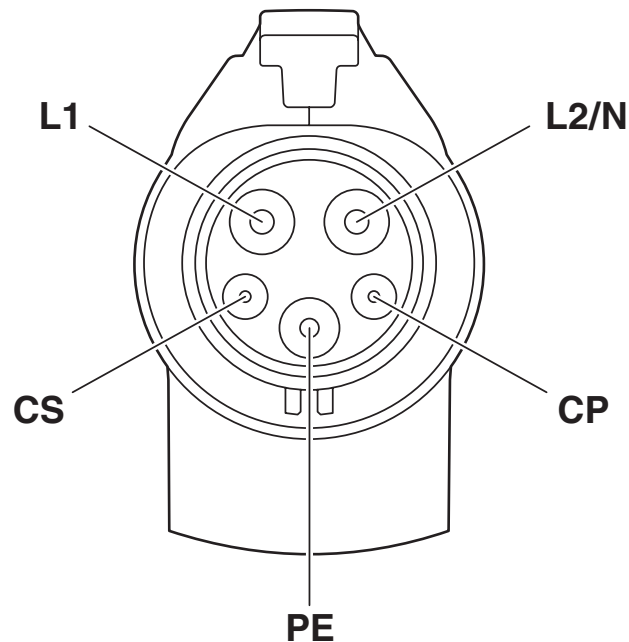
## Drawings

Connection diagram



Pin assignment of Infrastructure Plug

Connection diagram



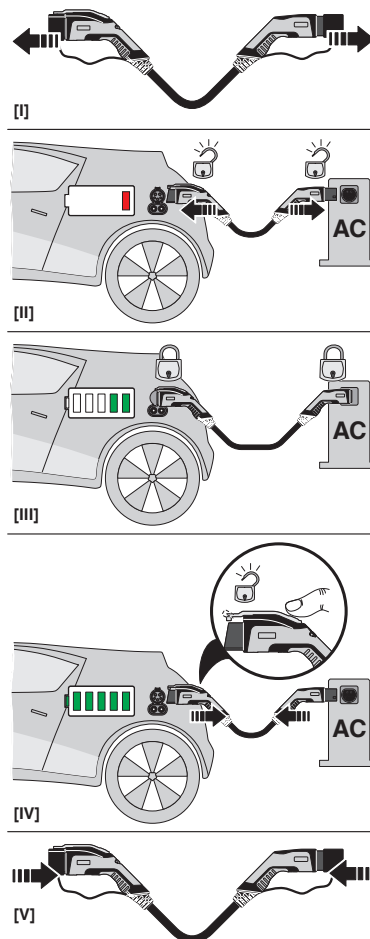
Pin assignment of the Vehicle Connector

# EV-TAG3PC-1AC20A-5,0M2,5ESBK01 - AC charging cable

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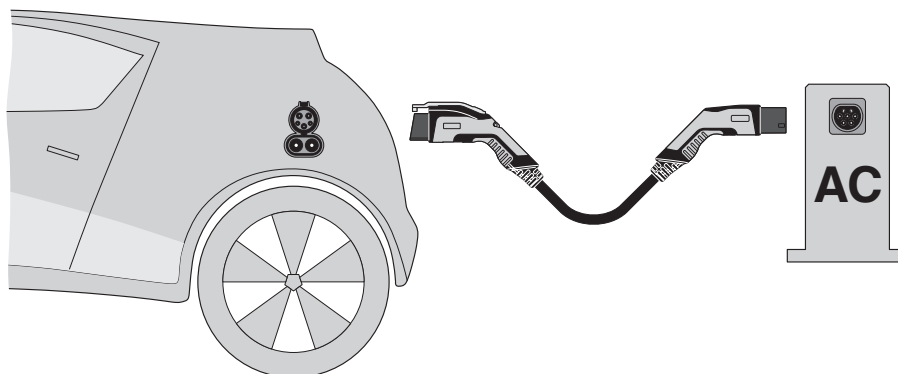
<https://www.phoenixcontact.com/pl/produkty/1628027>

## Schematic diagram



## Operating instructions

### Schematic diagram



## Terminology definition

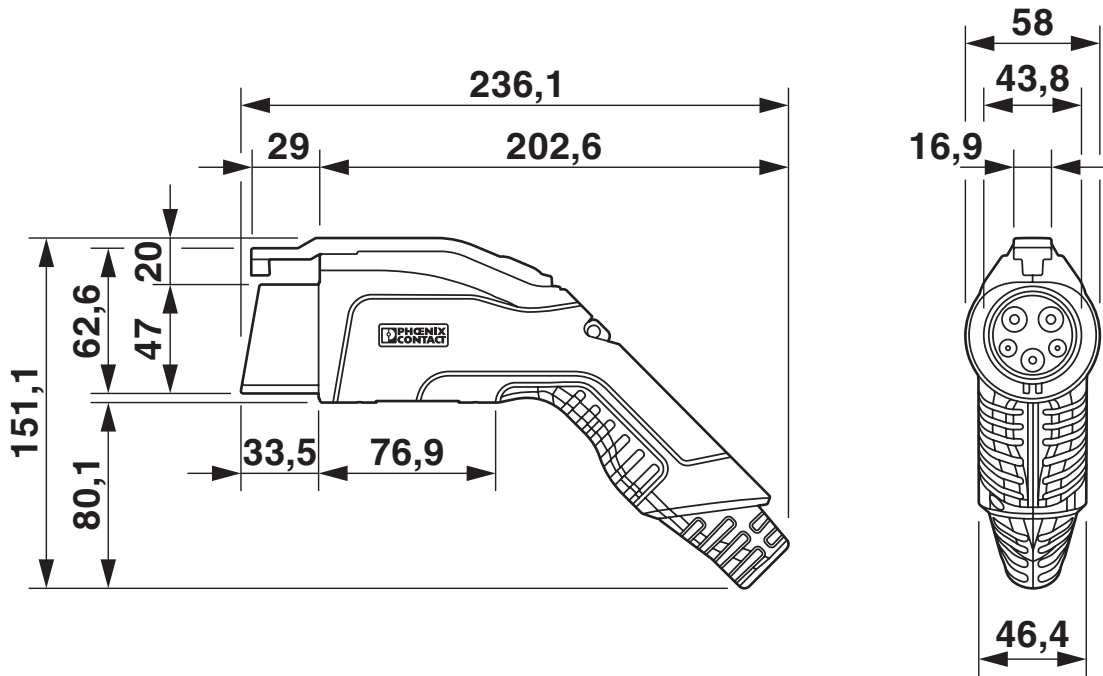
EV-TAG3PC-1AC20A-5,0M2,5ESBK01 - AC charging cable



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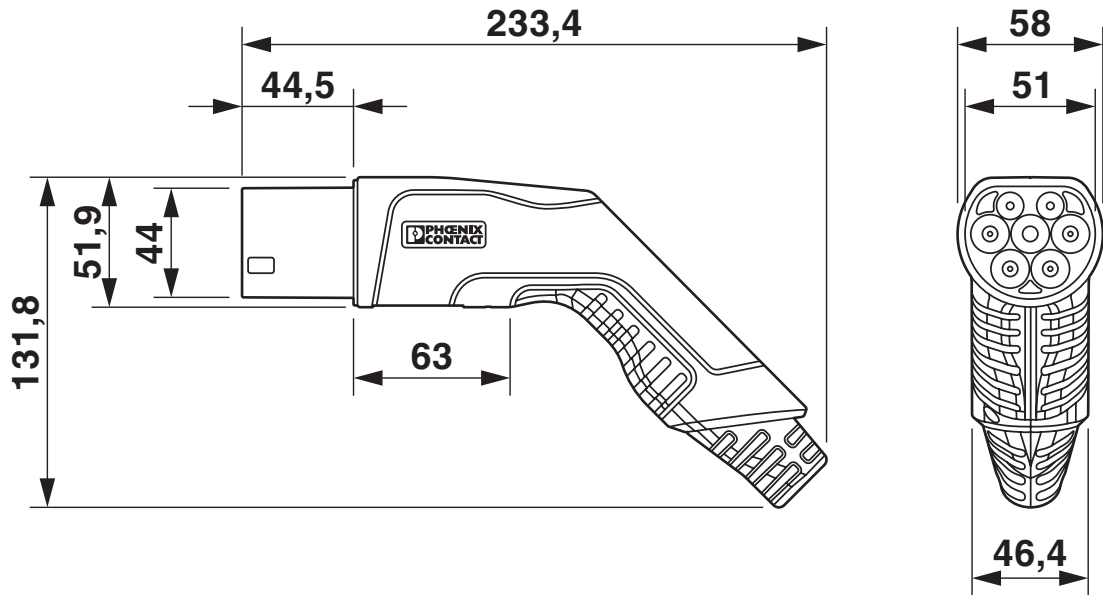
<https://www.phoenixcontact.com/pl/produkty/1628027>

Dimensional drawing



Vehicle connector

Dimensional drawing



Infrastructure plug

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## Approvals

|  | IECEE CB Scheme        |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: DE1-65897 |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$  | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                  | 20 A                  | -                 | -                           |

|  | VDE Zeichengenehmigung |                       |                   |                             |
|-----------------------------------------------------------------------------------|------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: 40045426  |                       |                   |                             |
|                                                                                   | Nominal Voltage $U_N$  | Nominal Current $I_N$ | Cross Section AWG | Cross Section $\text{mm}^2$ |
|                                                                                   | 250 V                  | 20 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-T2M3SO12-3P-P-SET - Infrastructure charging socket

1164422

<https://www.phoenixcontact.com/pl/produkty/1164422>



CHARX connect modular, Infrastructure charging socket, Premium, with protective cover, with temperature sensors, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-4P-P-SET - Infrastructure charging socket

1164423

<https://www.phoenixcontact.com/pl/produkty/1164423>



CHARX connect modular, Infrastructure charging socket, Premium, with protective cover, with temperature sensors, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-3P-BL-SET - Infrastructure charging socket

1268358

<https://www.phoenixcontact.com/pl/produkty/1268358>



CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-4P-BL-SET - Infrastructure charging socket

1268355

<https://www.phoenixcontact.com/pl/produkty/1268355>



CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

## EV-T2M3SO12-3P-B-SET - Infrastructure charging socket

1164420

<https://www.phoenixcontact.com/pl/produkty/1164420>



CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-4P-B-SET - Infrastructure charging socket

1164417

<https://www.phoenixcontact.com/pl/produkty/1164417>



CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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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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## EV-LABEL-C-SO - Label

1315521

<https://www.phoenixcontact.com/pl/produkty/1315521>

CHARX connect, Label, Accessories, for AC type 2 infrastructure charging plug,  
DIN EN 17186



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