

# CHARX ET2C-3AC20-5,0MES00P1 - AC charging cable



1518293

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CHARX connect eco, Type 2, AC charging cable, 20 A permanent, 480 V AC, with vehicle charging connector and open cable end, Functional prototype, cable: 5 m, black, straight, with protective cap, with SAMPLE marking, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC)

## Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 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                          | 1518293       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | XWBAAZ        |
| Product key                          | XWBAAZ        |
| GTIN                                 | 4063151981839 |
| Weight per piece (including packing) | 1,715 g       |
| Weight per piece (excluding packing) | 1,715 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 eco   |
| Application         | for charging electric vehicles (EV) with alternating current (AC)<br>compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE) |
| Type                | AC charging cable<br>with vehicle charging connector and open cable end<br>Functional prototype   |
| Design              | with protective cap<br>with SAMPLE marking  |
| Affixed logo        | PHOENIX CONTACT logo  |
| Charging mode       | Mode 3, Case C  |
| Charging standard   | Type 2  |
| Customer variations | On request  |

### Electrical properties

|                               |  |
|-------------------------------|--|
| Type of signal transmission   | Pulse width modulation                   |
| Note on the connection method | Crimp connection, cannot be disconnected |
| Coding                        | 680 $\Omega$ (between PE and PP)         |
| Type of charging current      | AC 3-phase                               |
| Charging power                | 16.63 kW (3-phase)                       |
| Charging current              | 20 A AC (3-phase)                        |

### Power contact

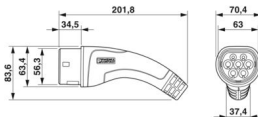
|               |                       |
|---------------|-----------------------|
| Number        | 5 (L1, L2, L3, N, PE) |
| Rated voltage | 480 V                 |
| Rated current | 20 A                  |

### Signal contact

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

## Dimensions

### Vehicle charging connector

|                     |  |
|---------------------|--|
| Dimensional drawing |  |
| Width               | 70.4 mm  |

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|        |          |
|--------|----------|
| Height | 82.3 mm  |
| Depth  | 201.8 mm |

## Material specifications

|                                       |              |
|---------------------------------------|--------------|
| Color (Housing)                       | black (9005) |
| Color (Handle area)                   | black (9005) |
| 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                 | 5 m   |
| Wiring standards/regulations | prEN 50620/DIN EN 50620   |
| Wiring certifications        | VDE   |
| Cable weight                 | max. 193.00 kg/km   |
| Cable type                   | Class 5   |
| Cable type                   | straight  |
| Cable structure              | 5 x 1.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                         |
| External cable diameter      | 11.55 mm ±0.35 mm   |
| Outer sheath, material       | TPE-U   |
| Cable resistance             | ≤ 0.011324 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius               | min. 86.625 mm (7.5x diameter)  |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 100 N |
| Withdrawal force            | < 100 N |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection (Vehicle charging connector) | 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)                   | -40 °C ... 50 °C   |
| Ambient temperature (storage/transport)           | -40 °C ... 80 °C   |
| Altitude  | max. 5000 m (above sea level)  |

## Standards and regulations

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## Standards

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

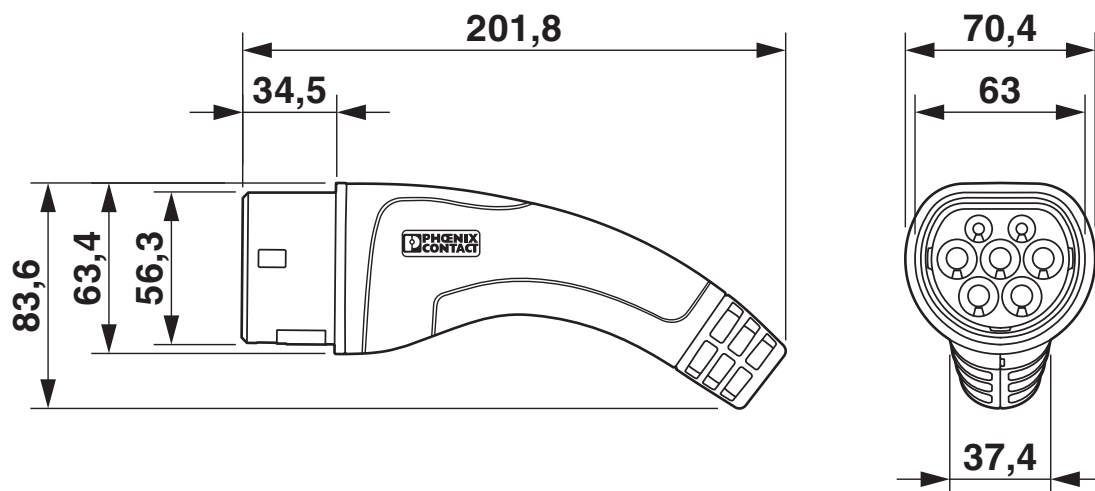
# CHARX ET2C-3AC20-5,0MES00P1 - AC charging cable

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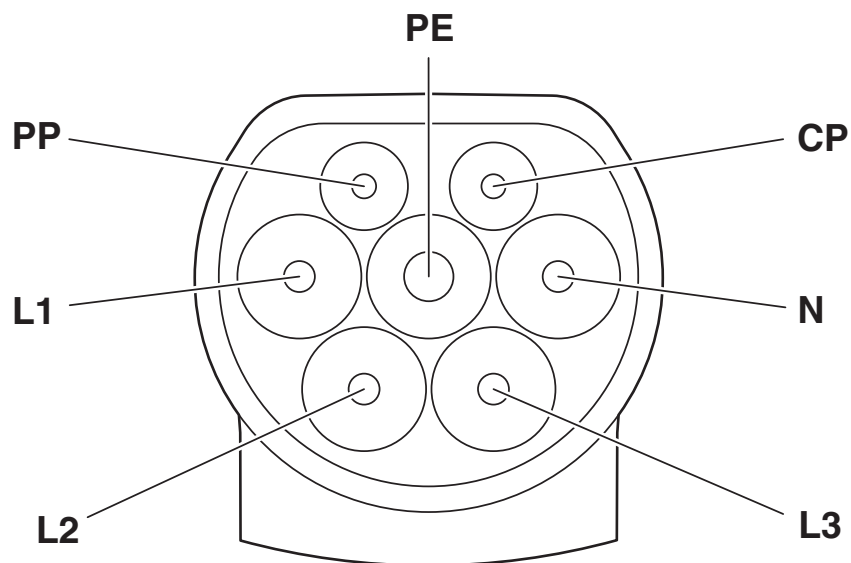
<https://www.phoenixcontact.com/gb/products/1518293>

## Drawings

Dimensional drawing



Connection diagram



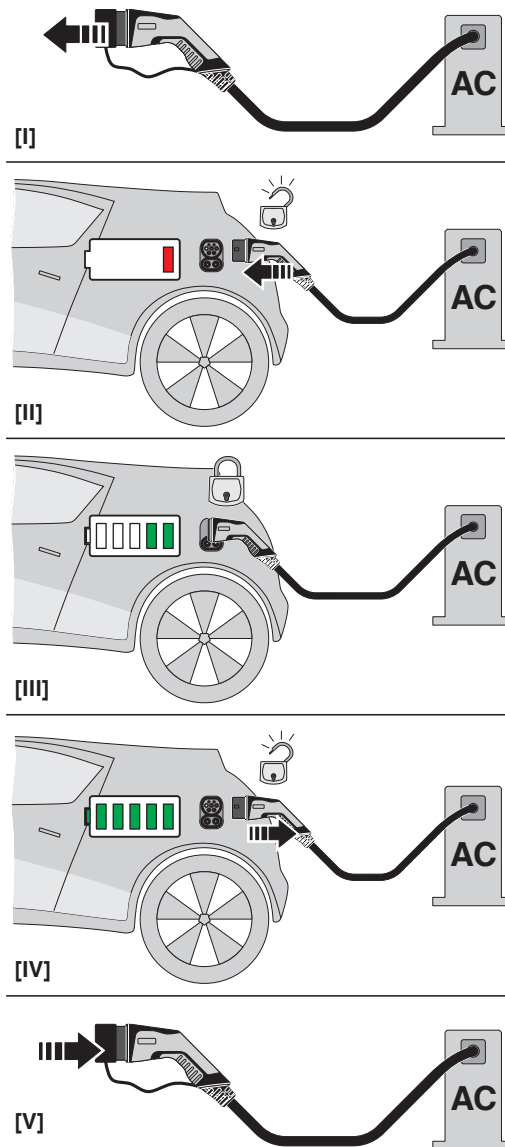
Pin assignment of Infrastructure Plug

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Schematic diagram



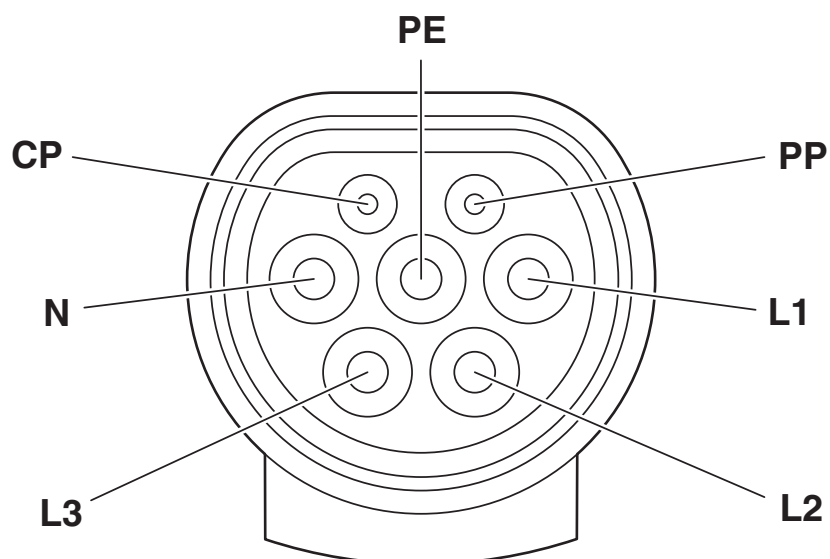
Operating instructions

# CHARX ET2C-3AC20-5,0MES00P1 - AC charging cable

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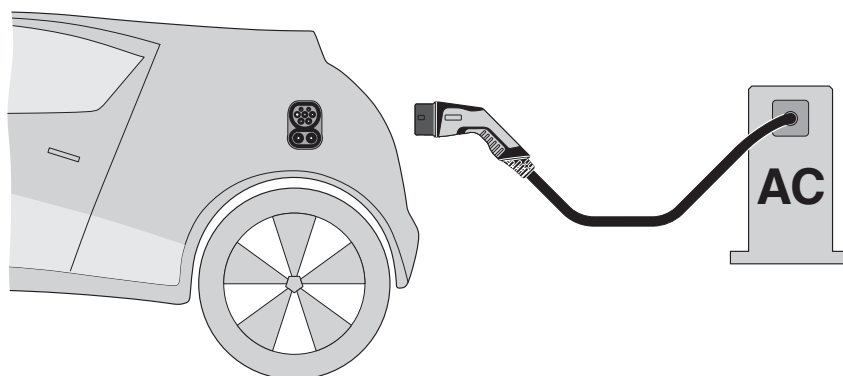
<https://www.phoenixcontact.com/gb/products/1518293>

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1518293>

|   |                                |                                |                   |                               |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>IECEE CB Scheme</b>         |                                |                   |                               |
|   | Approval ID: SG PSB-EH-00034   |                                |                   |                               |
|   |                                |                                |                   |                               |
|   | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|   | 480 V                          | 20 A                           | -                 | -                             |



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27144705 |
| ECLASS-12.0 | 27144705 |
| ECLASS-13.0 | 27144705 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002897 |
|----------|----------|

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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)                 |
| SCIP                                | 666ba920-2e84-4914-ace6-6f71511b6b2b |

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