

# EV-T2G3PC-3AC32A-4,0M6,0ESBK01 - AC charging cable



1623509

<https://www.phoenixcontact.com/us/products/1623509>

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CHARX connect comfort, Type 2, Mobile AC charging cable, 32 A permanent, 480 V AC, with vehicle charging connector and infrastructure charging plug, cable: 4 m, black, straight, with protective cap, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets

## 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 2 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                          | 1623509       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBEBD        |
| GTIN                                 | 4055626177908 |
| Weight per piece (including packing) | 2,533 g       |
| Weight per piece (excluding packing) | 2,533 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                                                                        |
| Type                | Mobile AC charging cable<br>with vehicle charging connector and infrastructure charging plug |
| Design              | with protective cap                                                                          |
| Charging standard   | Type 2                                                                                       |
| Charging mode       | Mode 3, Case B                                                                               |
| Affixed logo        | PHOENIX CONTACT logo                                                                         |
| Customer variations | On request                                                                                   |

### Electrical properties

#### Charging power and current (AC charging, 3-phase)

|                          |                   |
|--------------------------|-------------------|
| Type of charging current | AC 3-phase        |
| Charging current         | 32 A AC (3-phase) |
| Charging power           | 26.6 kW (3-phase) |
| Operating voltage        | typ. 400 V AC     |

#### Pin assignment (Power contacts)

|                               |                                          |
|-------------------------------|------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 5 (L1, L2, L3, N, PE)                    |
| Rated voltage                 | 480 V AC                                 |
| Rated current                 | 32 A                                     |

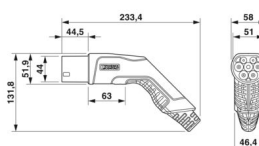
#### Pin assignment (Signal contacts)

|                               |                                          |
|-------------------------------|------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Type of signal transmission   | Pulse width modulation                   |
| Number                        | 2 (CP, PP)                               |
| Rated voltage                 | 30 V AC                                  |
| Rated current                 | 2 A                                      |
| Coding                        | 220 $\Omega$ (between PE and PP)         |

## Dimensions

#### Infrastructure charging plug

##### Dimensional drawing



Infrastructure plug

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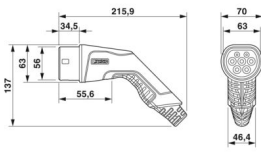


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|        |          |
|--------|----------|
| Width  | 58 mm    |
| Height | 131.8 mm |
| Depth  | 233.4 mm |

## Vehicle charging connector

|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Dimensional drawing | <br>Vehicle connector |
| Width               | 70 mm                                                                                                   |
| Height              | 137 mm                                                                                                  |
| Depth               | 215.9 mm                                                                                                |

## Material specifications

|                                         |                                                                      |
|-----------------------------------------|----------------------------------------------------------------------|
| Color (Housing)                         | black (9005)                                                         |
| Color (Handle area)                     | gray (7042)                                                          |
| 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 (Infrastructure charging plug) | Plastic                                                              |
| Material (Contact surface)              | Silver                                                               |
| Note                                    | The color appearance and gloss level of the charging cable may vary. |

## Cable/line

|                              |                                                                          |
|------------------------------|--------------------------------------------------------------------------|
| Cable length                 | 4 m                                                                      |
| Wiring standards/regulations | prEN 50620/DIN EN 50620                                                  |
| Wiring certifications        | VDE                                                                      |
| Cable weight                 | max. 505.00 kg/km                                                        |
| Cable type                   | Class 5                                                                  |
| Cable type                   | straight                                                                 |
| Cable structure              | 5 x 4.0 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                        |
| External cable diameter      | 14.20 mm ±0.3 mm                                                         |
| Outer sheath, material       | TPE-U                                                                    |
| Cable resistance             | ≤ 0.00425 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius               | min. 127.5 mm (7.5x diameter)                                            |

## Mechanical properties

### Mechanical data

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|                             |         |
|-----------------------------|---------|
| 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 (Infrastructure charging plug) | 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                                            | 5000 m (above sea level)                                                                                                                                                                                       |

## Standards and regulations

|                          |                                   |
|--------------------------|-----------------------------------|
| Standards/specifications | IEC 62196-2                       |
| Note                     | Compliant with AFIR - EU 2025/656 |

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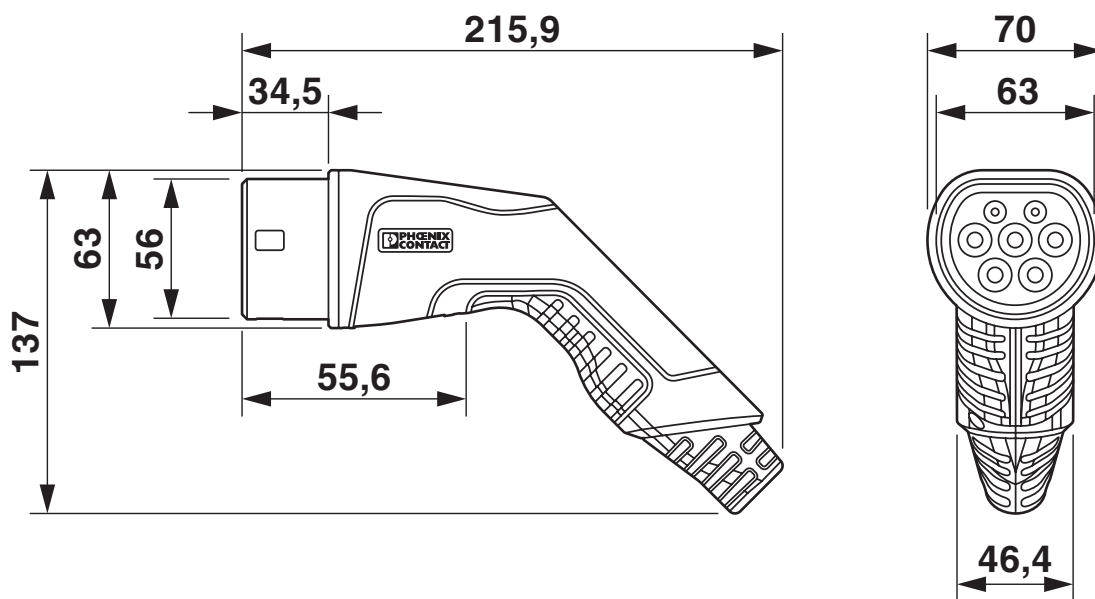


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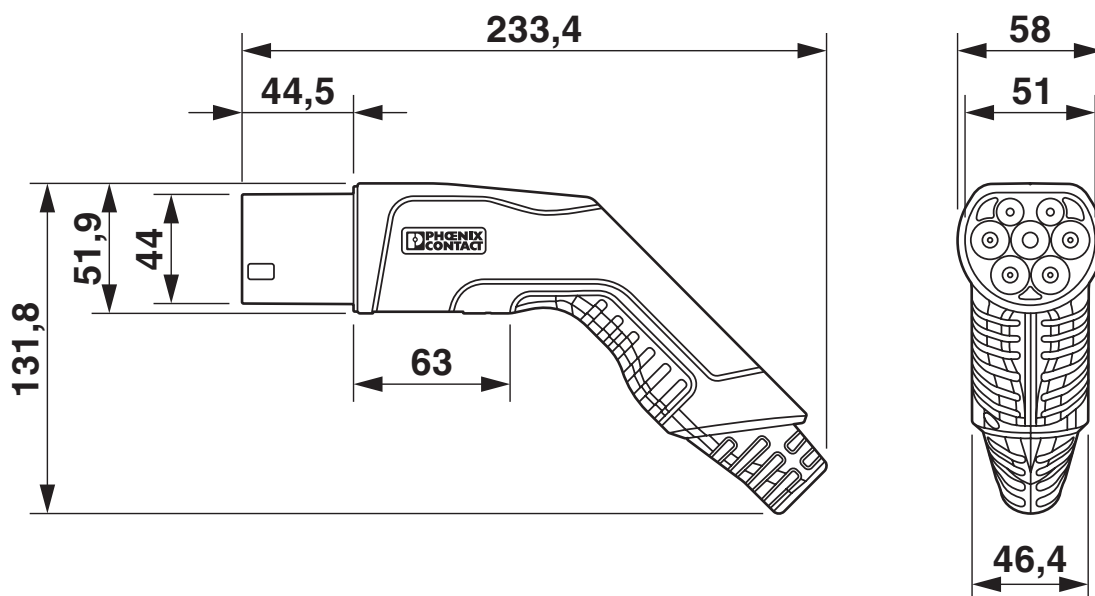
## Drawings

Dimensional drawing



## Vehicle connector

Dimensional drawing



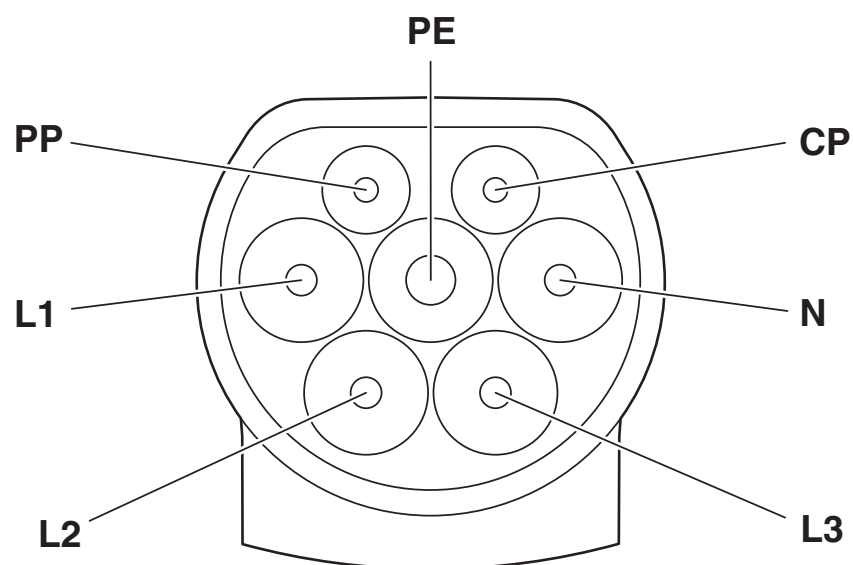
## Infrastructure plug

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Connection diagram



Pin assignment of Infrastructure Plug

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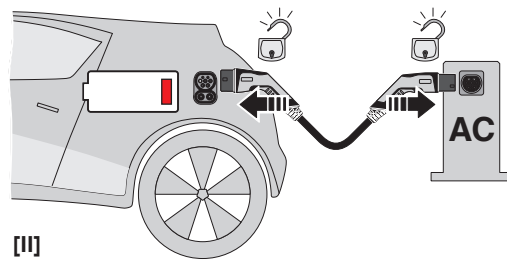
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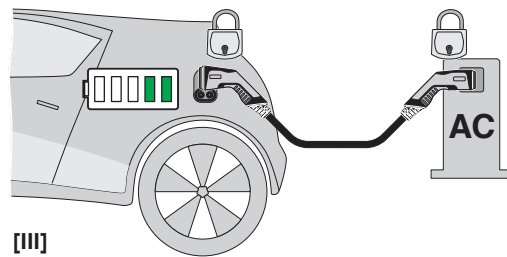
Schematic diagram



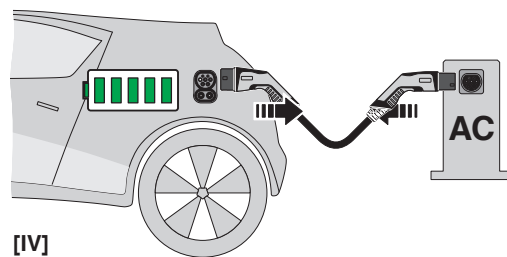
[I]



[II]



[III]



[IV]



[V]

Operating instructions

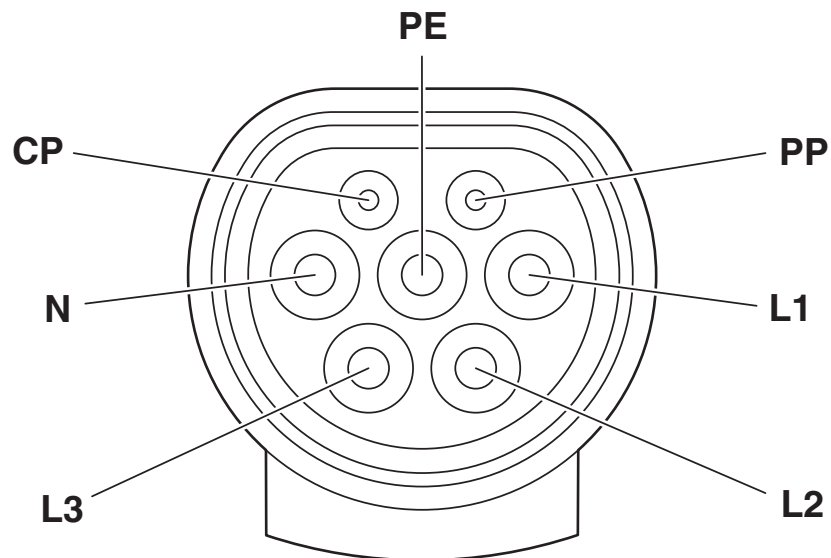
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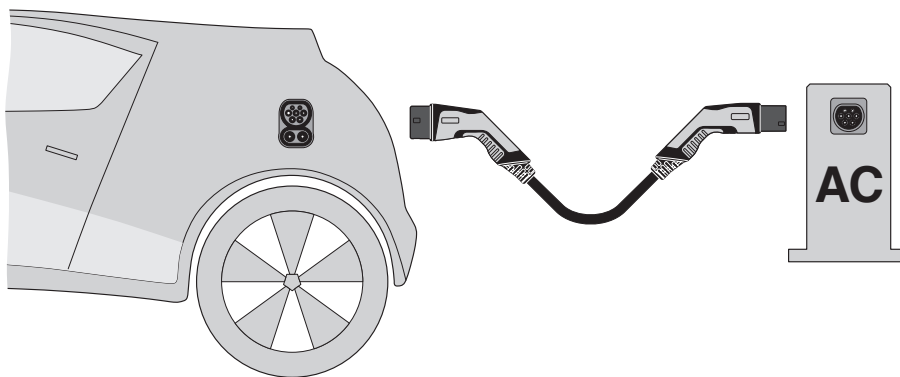
<https://www.phoenixcontact.com/us/products/1623509>

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/us/products/1623509>

|                                                                                   |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  | IECEE CB Scheme                |                                |                   |                               |
|                                                                                   | Approval ID: DE1-65890/M1      |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                             |                                |                                |                   |                               |
|                                                                                   | 480 V                          | 32 A                           | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27144705 |
| ECLASS-15.0 | 27144705 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002897 |
|-----------|----------|

### UNSPSC

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

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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-50                                                                                                                                                                                                                           |
|                                        | 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                                | aec37b63-ebf7-46d0-995d-ce9ee257e572 |

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