

# EV-T2G4CC-DC40A-5,0M6,0ESBK11 - DC charging cable



1106637

<https://www.phoenixcontact.com/us/products/1106637>

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CHARX connect compact, CCS type 2, DC charging cable, 40 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with connected PP contact, with analog temperature sensors, PHOENIX CONTACT logo, IEC 62196-3, for charging electric vehicles (EV) with direct current (DC)

## Product description

DC charging cable with vehicle charging connector and free cable end for fast charging of electric vehicles (EV) with direct current (DC) via CCS type 2 vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

## Your advantages

- Complete product range
- The right charging cable for every application, from the carport to the charging park
- Convenient handling due to the ergonomic design
- Available with your logo on request - for consistent branding of your charging station
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1106637       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBMBA        |
| GTIN                                 | 4055626997186 |
| Weight per piece (including packing) | 2,322 g       |
| Weight per piece (excluding packing) | 2,330 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                   |  |
|-------------------|--|
| Product type      | DC charging cable  |
| Product family    | CHARX connect compact  |
| Technology        | Combined Charging System   |
| Application       | for charging electric vehicles (EV) with direct current (DC)<br>for installation at charging stations for electromobility (EVSE) |
| Design            | with connected PP contact<br>with analog temperature sensors   |
| Charging standard | CCS type 2   |
| Charging mode     | Mode 4   |
| Affixed logo      | PHOENIX CONTACT logo   |
| Label             | 8.9 mm x 28.9 mm (customer logo on request)  |

### Electrical properties

|                             |   |
|-----------------------------|---|
| Type of signal transmission | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
| Temperature monitoring      | 2x Pt 1000  |

#### Charging power and current (DC charging)

|                          |         |
|--------------------------|---------|
| Type of charging current | DC      |
| Charging current         | 40 A DC |
| Charging power           | 40 kW   |
| Rated voltage            | 1000 V  |

#### Pin assignment (Leistungskontakte)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (PE, DC+, DC-)                         |
| Rated voltage                 | 1000 V DC                                |
| Rated current                 | 40 A (up to 55 °C)                       |

#### Pin assignment (Signalkontakte)

|                               |   |
|-------------------------------|---|
| Note on the connection method | Crimp connection, cannot be disconnected  |
| Type of signal transmission   | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
| Number                        | 2 (CP, PP)  |
| Rated voltage                 | 30 V AC   |
| Rated current                 | 2 A   |
| Coding                        | 1500 Ω (between PE and PP)  |

#### Temperature sensors (Pt 1000)

|                       |              |
|-----------------------|--------------|
| Sensor type           | Pt 1000      |
| Standards/regulations | DIN EN 60751 |

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|                              |  |
|------------------------------|--|
| Attachment point             | Sensor for the DC contacts                             |
| Switch-off temperature       | 90 °C ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω) |
| Long-term stability          | 0.06 % (after 1000 hours at 130 °C)                    |
| Recommended measured current | 1 mA (1 V at 0°C)                                      |
| Coefficient                  | 3850 ppm/K   |
| Ambient temperature          | -50 °C ... 130 °C (Operation)                          |

## Dimensions

### Vehicle charging connector

|        |        |
|--------|--------|
| Width  | 71 mm  |
| Height | 144 mm |
| Depth  | 243 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 (Contact surface)             | Silver   |
| Note                                   | The color appearance and gloss level of the charging cable may vary. |
| Flammability rating according to UL 94 | V0 (Mating face)   |

## Cable/line

|                                |   |
|--------------------------------|---|
| Cable length                   | 5 m ±45 mm  |
| Wiring standards/regulations   | prEN 50620/DIN EN 50620   |
| Cable weight                   | max. 364.00 kg/km   |
| Cable type                     | Class 6   |
| Cable type                     | straight  |
| Cable structure                | 3 x 6.0 mm <sup>2</sup> + 3 x 2 x 0.75 mm <sup>2</sup>                  |
| External cable diameter        | 14.90 mm ±0.4 mm  |
| Outer sheath, material         | TPE-U   |
| Stripping length of the sheath | 140 mm ±10 mm   |
| Stripping length               | 140 mm ±10 mm   |
| Cable resistance               | ≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 111.8 mm (7.5x diameter)   |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
|-----------------------------|---------|

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|                  |         |
|------------------|---------|
| Insertion force  | < 100 N |
| Withdrawal force | < 100 N |

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection (Vehicle charging connector) | IP54 (plugged in; when plugged in and ready to operate, the degree of protection is only ensured if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products) |
| Ambient temperature (operation)                   | -30 °C ... 55 °C  |
| Ambient temperature (storage/transport)           | -40 °C ... 80 °C  |
| Altitude  | 5000 m (above sea level)  |

## Standards and regulations

### Standards

|                       |             |
|-----------------------|-------------|
| Standards/regulations | IEC 62196-3 |
|-----------------------|-------------|

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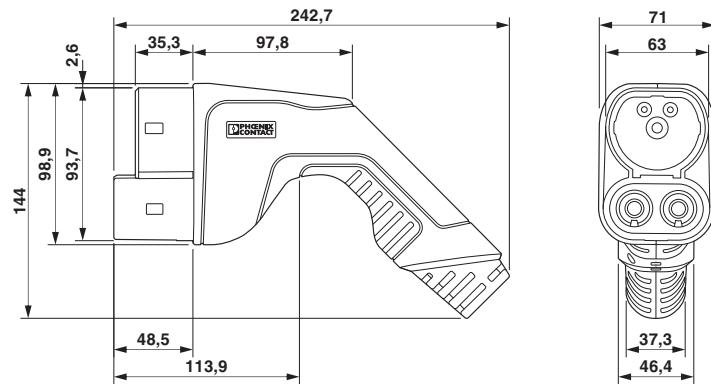


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## Drawings

Dimensional drawing



Dimensional drawing

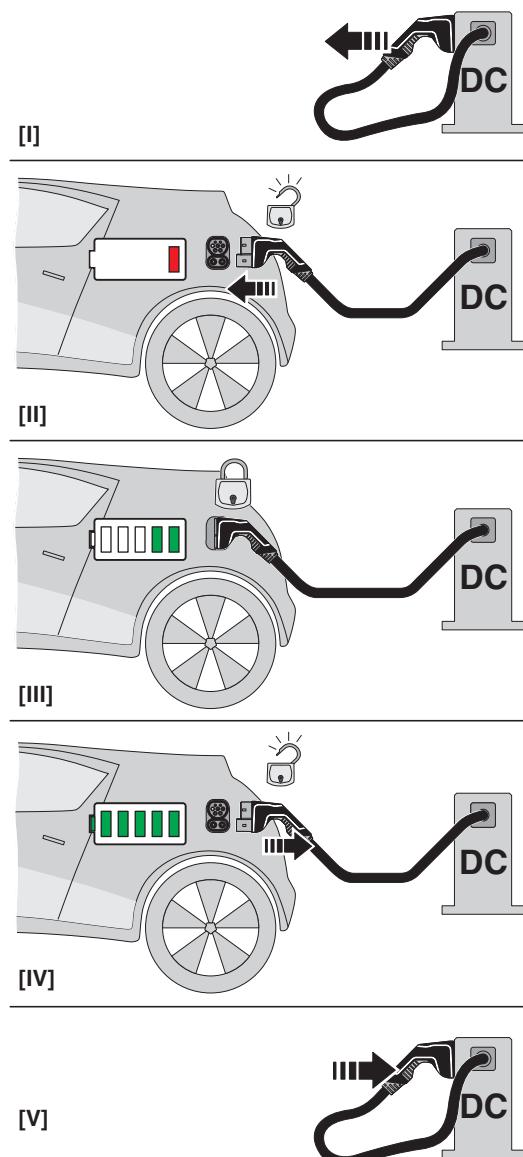
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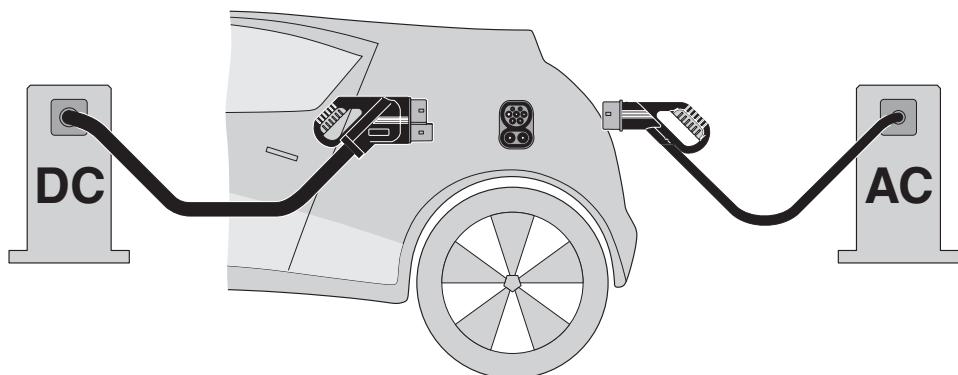
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Schematic diagram



Operating instructions

Schematic diagram



The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

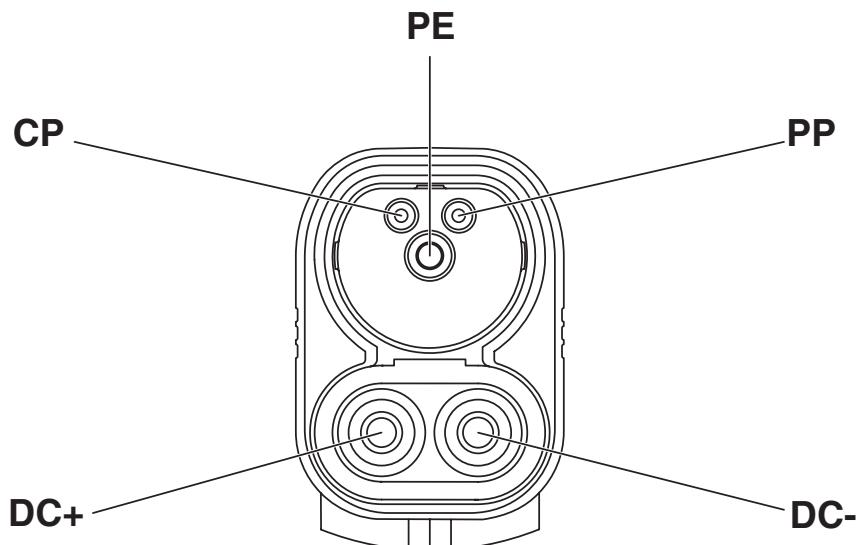
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Schematic diagram



Pin assignment of the Vehicle Connector

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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)  |
|                                     | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP                                | d362d7f2-cf4a-4326-abe0-aa83d5716e05                        |

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