

# EV-T2M4CC-DC200A-4,0M50ESBK11 - DC charging cable



1107042

<https://www.phoenixcontact.com/us/products/1107042>

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CHARX connect standard, CCS type 2, DC charging cable, up to 500 A in Boost mode, 200 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 4 m, black, straight, with connected PP contact, with replaceable mating face frame, 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                          | 1107042       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBMFE        |
| GTIN                                 | 4063151005368 |
| Weight per piece (including packing) | 7,580 g       |
| Weight per piece (excluding packing) | 7,580 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 standard                                                                                                           |
| 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 replaceable mating face frame<br>with analog temperature sensors                               |
| Charging standard | CCS type 2                                                                                                                       |
| Charging mode     | Mode 4                                                                                                                           |
| Affixed logo      | PHOENIX CONTACT logo                                                                                                             |
| Label             | 14.1 mm x 44.8 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         | 200 A DC |
| Charging power           | 200 kW   |
| Rated voltage            | 1000 V   |

### Charging power and current (DC charging in Boost Mode)

|                          |                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of charging current | DC Boost Mode                                                                                                                                               |
| Charging current         | up to 500 A DC                                                                                                                                              |
| Charging power           | up to 500 kW                                                                                                                                                |
| Rated voltage            | 1000 V                                                                                                                                                      |
| Note                     | The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area. |

### 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                 | 200 A (up to 40 °C)                      |

### Pin assignment (Signalkontakte)

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected        |
| Type of signal transmission   | Pulse width modulation with modulated Powerline |

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|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
|               | 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 $\Omega$ (between PE and PP)<br>PP signal contact connected to cable |

## Temperature sensors (Pt 1000)

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Sensor type                  | Pt 1000                                                             |
| Standards/regulations        | DIN EN 60751                                                        |
| Attachment point             | Sensor for the DC contacts                                          |
| Switch-off temperature       | 90 °C $\pm$ 1 K (equivalent to a Pt 1000 value of 1346.5 $\Omega$ ) |
| 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  | 75 mm  |
| Height | 139 mm |
| Depth  | 267 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. |

## Cable/line

|                              |                                                                                |
|------------------------------|--------------------------------------------------------------------------------|
| Cable length                 | 4 m $\pm$ 45 mm                                                                |
| Wiring standards/regulations | prEN 50620/DIN EN 50620                                                        |
| Wiring certifications        | VDE-Reg.                                                                       |
| Cable weight                 | max. 1620.00 kg/km                                                             |
| Cable type                   | Class 6                                                                        |
| Cable type                   | straight                                                                       |
| Cable structure              | 2 x 50 mm <sup>2</sup> + 1 x 25 mm <sup>2</sup> + 3 x 2 x 0.75 mm <sup>2</sup> |
| External cable diameter      | 28.10 mm $\pm$ 0.5 mm                                                          |

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|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| Outer sheath, material         | TPE-U                                                                    |
| Stripping length of the sheath | 140 mm ±10 mm                                                            |
| Stripping length               | 140 mm ±10 mm                                                            |
| Cable resistance               | ≤ 0.00039 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 281 mm (10x Ø)                                                      |

## 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) |
| Ambient temperature (operation)                   | -30 °C ... 40 °C<br>max. 55 °C (Current reduction required, observe the DC contact temperature limit value of 90°C)                                                                                            |
| Ambient temperature (storage/transport)           | -40 °C ... 80 °C                                                                                                                                                                                               |
| Altitude                                          | 5000 m (above sea level)                                                                                                                                                                                       |

## Standards and regulations

### Standards

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

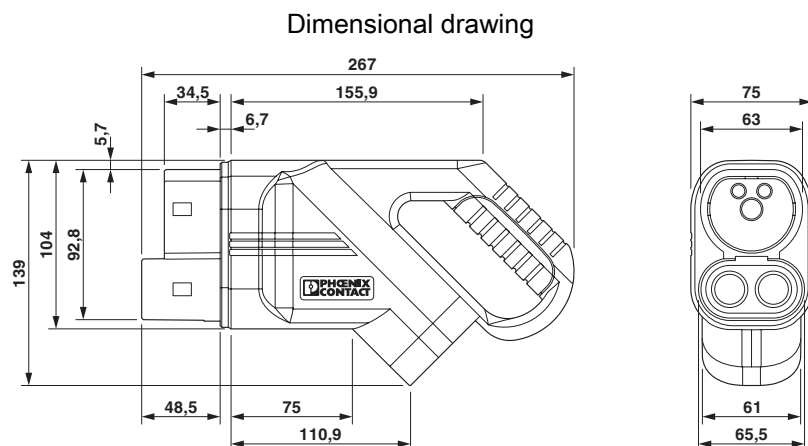
# EV-T2M4CC-DC200A-4,0M50ESBK11 - DC charging cable



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## Drawings



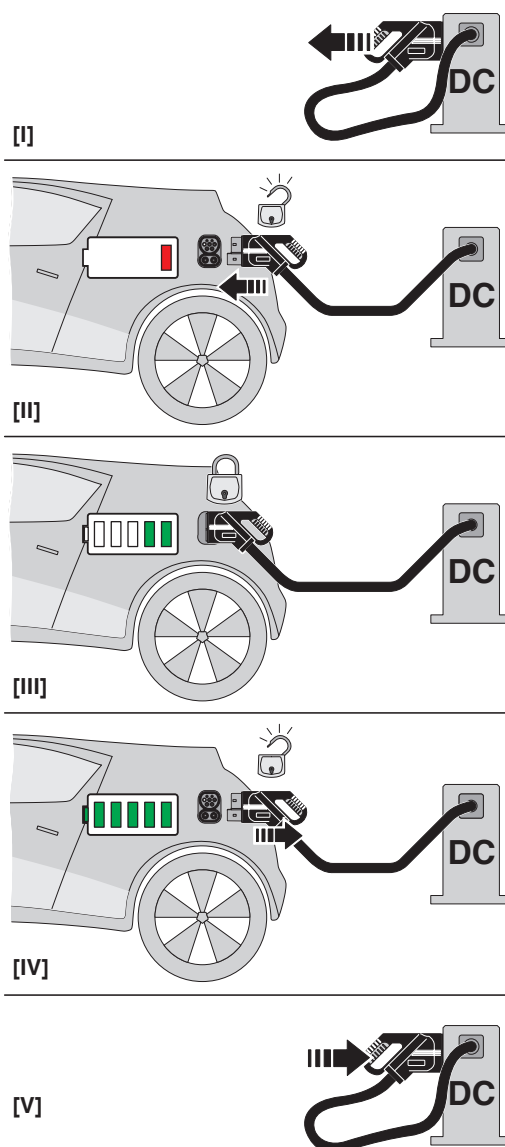
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

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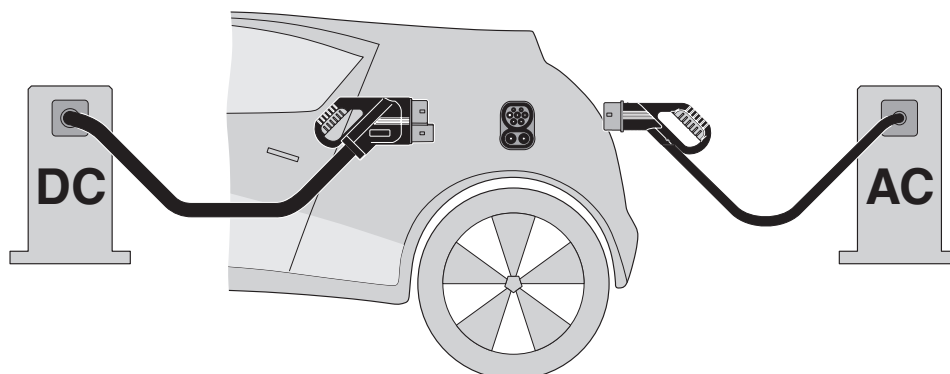
<https://www.phoenixcontact.com/us/products/1107042>

Schematic diagram



## Operating instructions

Schematic diagram



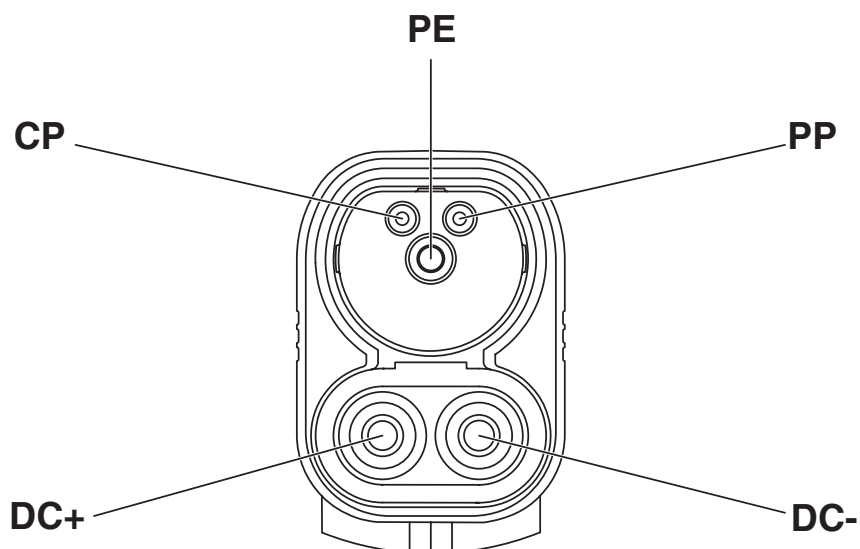
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



Pin assignment of the Vehicle Connector

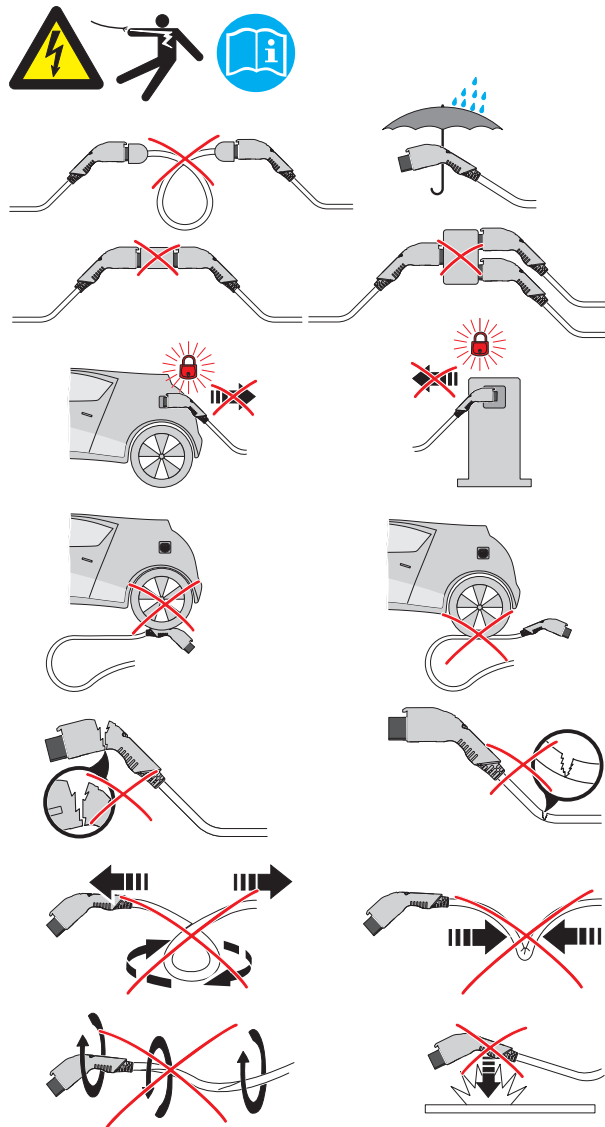
EV-T2M4CC-DC200A-4,0M50ESBK11 - DC charging cable



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### Schematic diagram



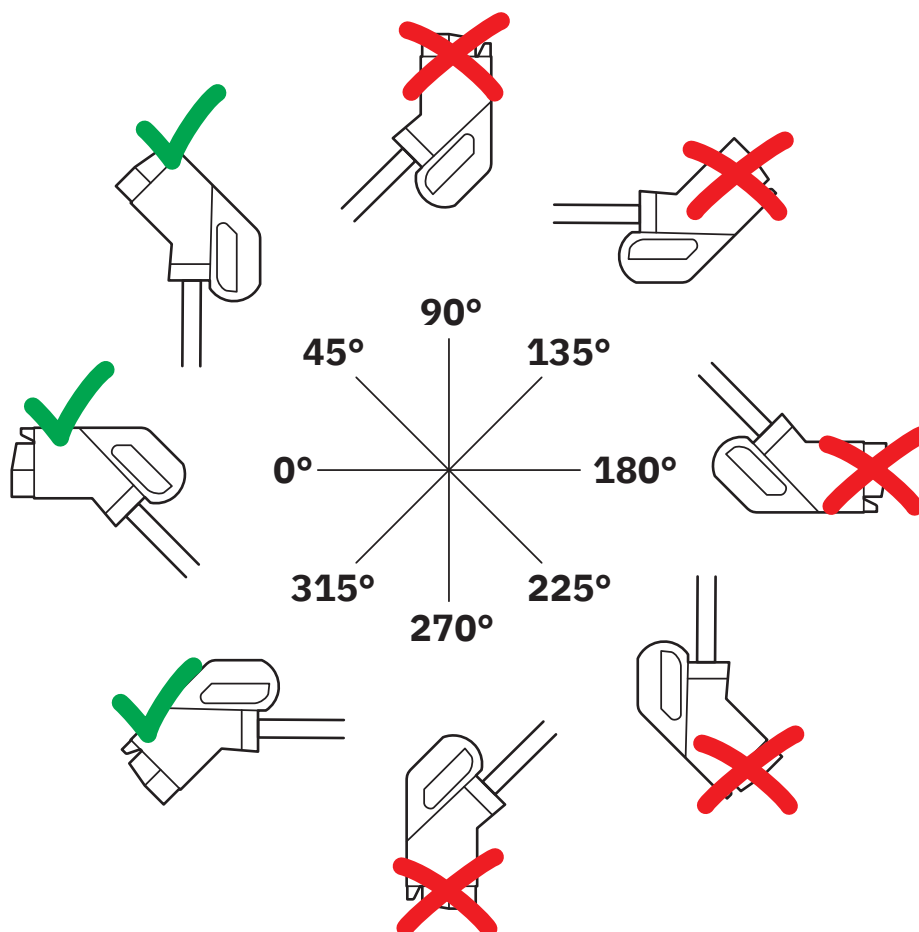
### Warnings regarding use

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Schematic diagram



The resting position must be installed in the charging station such that the user cannot hang up the vehicle connector upside down (90° to 270°). However, positions rotated upward (45°) or downward (315°) are options for a resting position.

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Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1107042>

|                                                                                   |                                                        |                                |                   |                               |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------|-------------------|-------------------------------|
|  | <b>IECEE CB Scheme</b><br>Approval ID: DE1-65588/M3/A1 |                                |                   |                               |
|                                                                                   | Nominal voltage U <sub>N</sub>                         | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                             |                                                        |                                |                   |                               |
|                                                                                   | 1000 V                                                 | 200 A                          | -                 | -                             |

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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), 7(c)-I |

### 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)                              |
|                                     | Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: 143-24-8) |
| SCIP                                | 51b965ef-0ac3-41f6-9f56-1ab319f6a123              |

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