

# EV-T2M4CC-DC80A-5,0M16ESBK11 - DC charging cable



1095764

<https://www.phoenixcontact.com/us/products/1095764>

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CHARX connect standard, CCS type 2, DC charging cable, 80 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with connected PP contact, with replaceable mating face frame, with analog temperature sensors, no liquid cooling, 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                          | 1095764       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBMFB        |
| GTIN                                 | 4055626925240 |
| Weight per piece (including packing) | 4,898 g       |
| Weight per piece (excluding packing) | 4,810 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  |
| Type              | DC charging cable<br>with vehicle charging connector and open cable end   |
| Design            | with connected PP contact<br>with replaceable mating face frame<br>with analog temperature sensors<br>no liquid cooling |
| 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         | 80 A DC |
| Charging power           | 80 kW   |
| Rated voltage            | 1000 V  |

### Pin assignment (Power contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (PE, DC+, DC-)                         |
| Rated voltage                 | 1000 V DC                                |
| Rated current                 | 80 A (up to 40 °C)                       |

### Pin assignment (Signal contacts)

|                               |   |
|-------------------------------|---|
| 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)<br>PP signal contact connected to cable  |

### Temperature sensors (Pt 1000)

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|                              |  |
|------------------------------|--|
| Sensor type                  | Pt 1000  |
| Standards/regulations        | DIN EN 60751   |
| 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  | 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. |
| 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. 820.00 kg/km  |
| Cable type                     | Class 6  |
| Cable type                     | straight   |
| Cable structure                | 3 x 16 mm <sup>2</sup> + 3 x 2 x 0.75 mm <sup>2</sup>                    |
| External cable diameter        | 21.20 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               | ≤ 0.00121 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 212 mm (10x Ø)  |

## Mechanical properties

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## 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/specifications | IEC 62196-3  |
| Note                     | Compliant with AFIR - EU 2025/656  |
| Note                     | Test voltage for insulation resistance measurement in accordance with IEC 62196-1:2022 between CP and PE/PP < 24 V |

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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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## Schematic diagram



## Operating instructions

### Schematic diagram



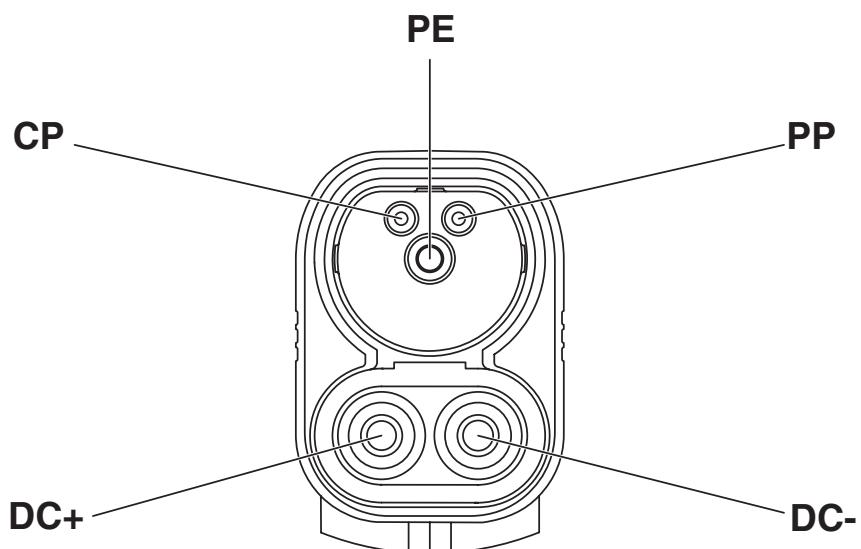
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



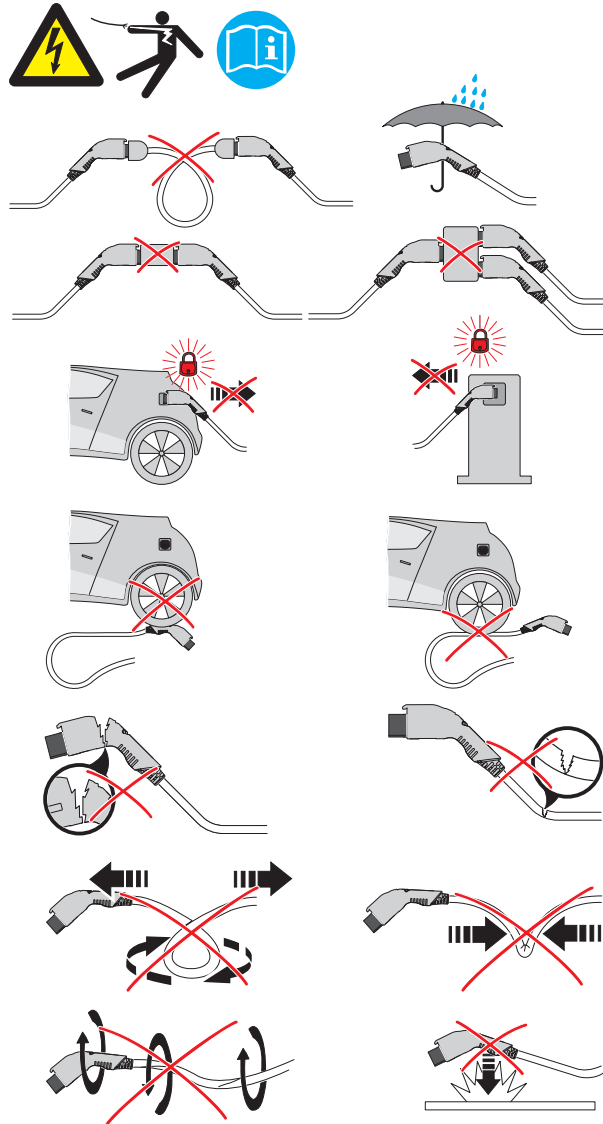
Pin assignment of the Vehicle Connector

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## 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/1095764>

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-65588/M3/A1 |  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|--|-----------------------|-----------------------|-------------------|-----------------------------|
| keine  |  |                       |                       |                   |                             |
|  |  | 1000 V                | 80 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), 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                                | 69141418-f0ce-47bf-8fea-e881a499d9cd              |

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 54.3 kg CO2e |
|---------|--------------|

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