

# EV-T2M4CC-DC80A-7,5M16ESBK11 - DC charging cable



1169802

<https://www.phoenixcontact.com/in/products/1169802>

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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: 7.5 m, black, straight, with connected PP contact, with replaceable mating face frame, with analog temperature sensors, PHOENIX CONTACT logo, NOTE: Cable management may be required., 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                          | 1169802       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | XWB           |
| Product key                          | XWBAAD        |
| GTIN                                 | 4063151188269 |
| Weight per piece (including packing) | 6.648 g       |
| Weight per piece (excluding packing) | 6,788 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                                                                                                           |
| Application       | for charging electric vehicles (EV) with direct current (DC)<br>for installation at charging stations for electromobility (EVSE) |
| 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                               |
| Technology        | Combined Charging System                                                                                                         |
| Affixed logo      | PHOENIX CONTACT logo                                                                                                             |
| Label             | 14.1 mm x 44.8 mm (customer logo on request)                                                                                     |
| Charging standard | CCS type 2                                                                                                                       |
| Charging mode     | Mode 4                                                                                                                           |

### Electrical properties

|                               |                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Type of signal transmission   | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
| Note on the connection method | Crimp connection, cannot be disconnected                                                                        |
| Coding                        | 1500 $\Omega$ (between PE and PP)<br>PP signal contact connected to cable                                       |
| Temperature monitoring        | 2x Pt 1000                                                                                                      |
| Type of charging current      | DC                                                                                                              |
| Charging power                | 80 kW                                                                                                           |
| Charging current              | 80 A DC                                                                                                         |

### Power contact

|               |                    |
|---------------|--------------------|
| Number        | 3 (PE, DC+, DC-)   |
| Rated voltage | 1000 V DC          |
| Rated current | 80 A (up to 40 °C) |

### Signal contact

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

### 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 $\Omega$ ) |

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|                              |                                     |
|------------------------------|-------------------------------------|
| 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           |
| Flammability rating according to UL 94 | V0 (Mating face) |

## Cable/line

|                                |                                                                          |
|--------------------------------|--------------------------------------------------------------------------|
| Cable length                   | 7.5 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

### Mechanical data

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

## Environmental and real-life conditions

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## 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

### Connection in accordance with standard

|                                     |                                                                                                                                    |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Normative cable length restrictions | NOTE: Cable management may be required.<br>Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1). |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

### Standards

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

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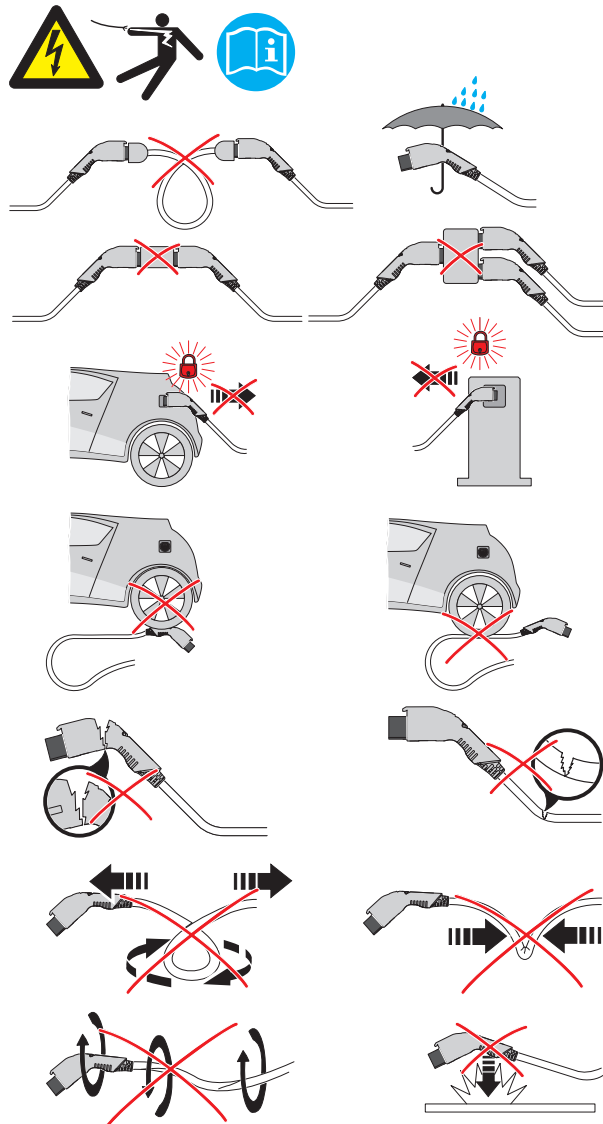


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## Drawings

### Schematic diagram

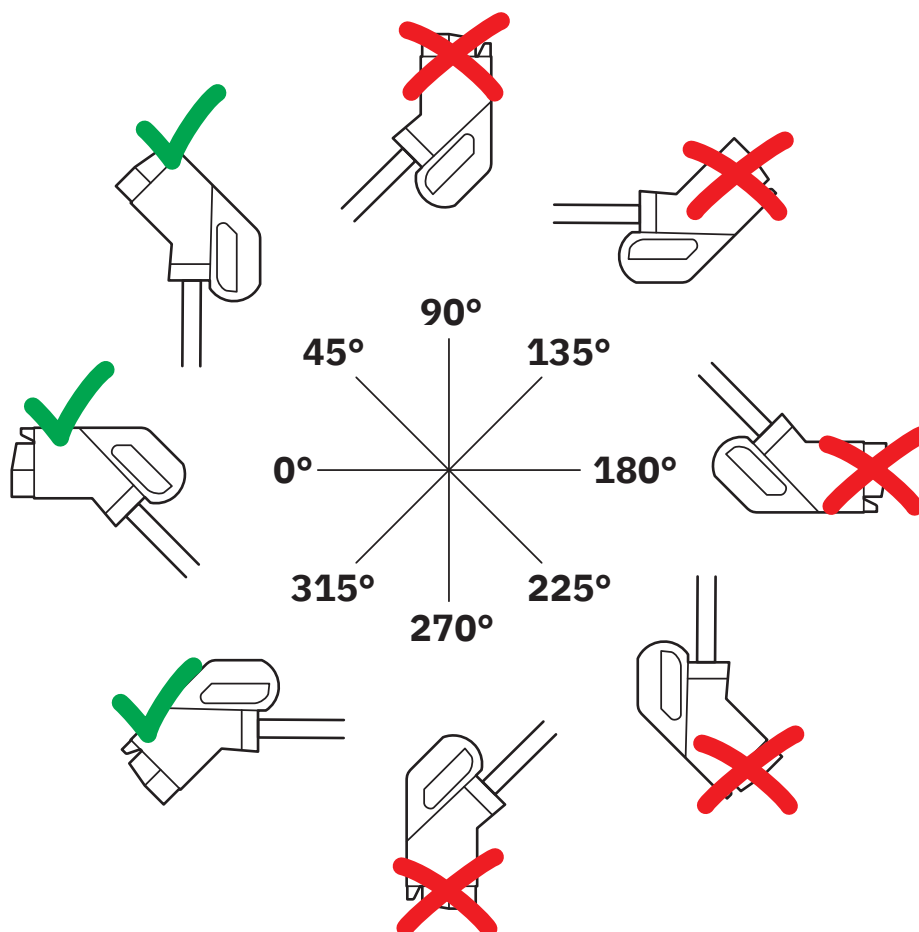


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Schematic diagram



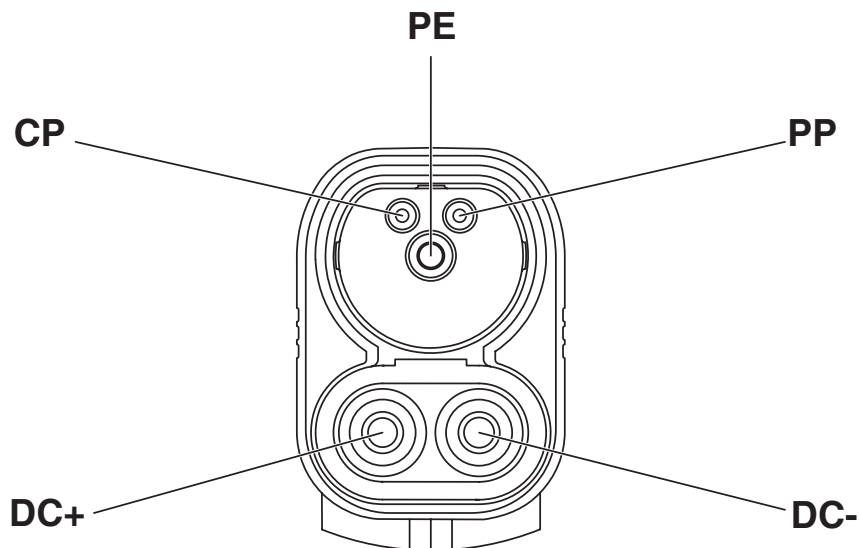
The resting position must be installed in the charging station such that the user cannot hang up the vehicle connector upside down (90° to 270°). However, positions rotated upward (45°) or downward (315°) are options for a resting position.

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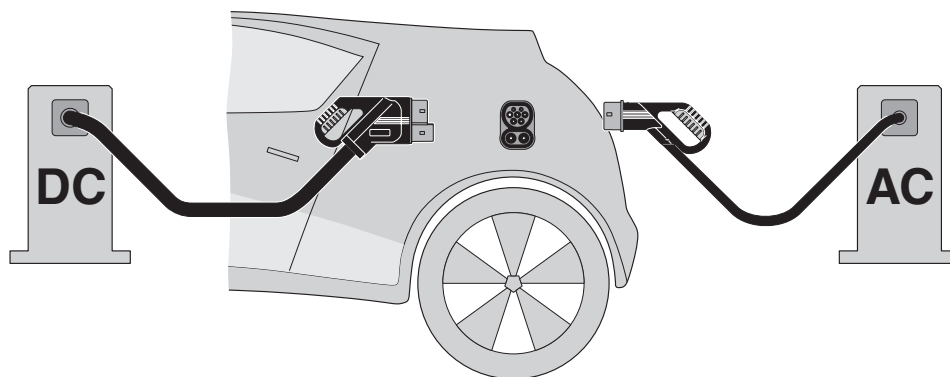
<https://www.phoenixcontact.com/in/products/1169802>

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



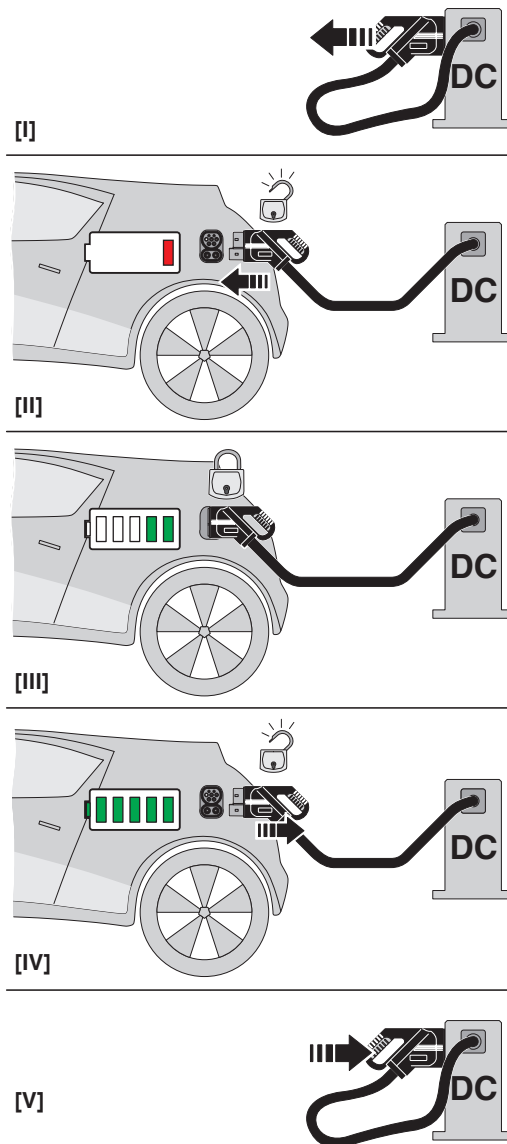
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



Operating instructions

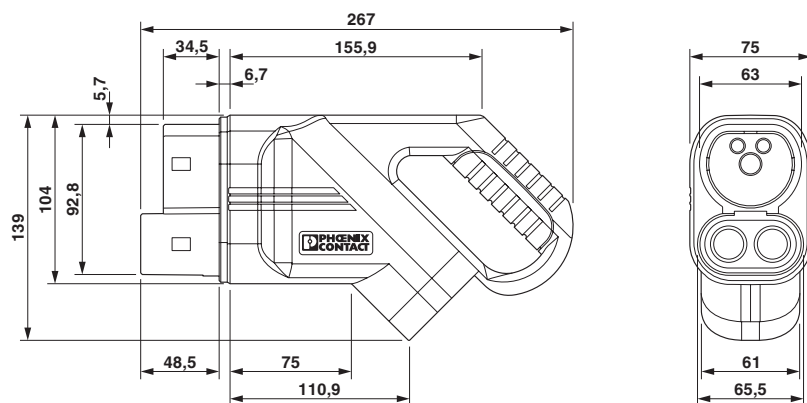
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Dimensional drawing



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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1169802>

|                                                                                   |                           |                       |                       |                               |
|-----------------------------------------------------------------------------------|---------------------------|-----------------------|-----------------------|-------------------------------|
|  | <b>IECEE CB Scheme</b>    |                       |                       |                               |
|                                                                                   | Approval ID: DE1-65588/M1 |                       |                       |                               |
|                                                                                   |                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG             |
|                                                                                   |                           | 1000 V                | 80 A                  | -                             |
|                                                                                   |                           |                       |                       | Cross section mm <sup>2</sup> |
|                                                                                   |                           |                       |                       | -                             |

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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                                | 0c861fd4-bdd8-462e-aa46-6336013d1794 |

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## Accessories

### EV-T2CCS-PARK - Charging connector holder

1624153

<https://www.phoenixcontact.com/in/products/1624153>



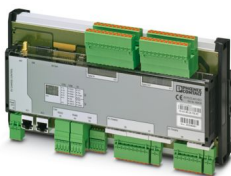
CHARX connect standard, CCS type 2, Charging connector holder, Accessories, Front mounting, housing: black, for vehicle charging connectors on charging stations (EVSE), IEC 62196-3, Item is not compatible with the HPC CCS type 2 charging cable from Phoenix Contact.

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### EV-PLCC-AC1-DC1 - DC charging controller

1624130

<https://www.phoenixcontact.com/in/products/1624130>



Programmable charging controller for DC and AC charging of electric vehicles in accordance with IEC 61851-1,-23, DIN SPEC 70121, and CHAdeMO, with integrated cellular modem

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## EV-T2CCS-MF-M4X45-BIT - Repair kit

1085796

<https://www.phoenixcontact.com/in/products/1085796>



CHARX connect standard, CCS type 2, Repair kit, Accessories, housing: black, with replaceable mating face frame, with 5x M4X45 rounded head screws with Torx security drive, with special bit (867/4 IPR TORX PLUS® bit, 20 IPR x 89 mm) for insulated screwdriver, for replacement of the mating face frame of vehicle charging connectors, IEC 62196-3, The vehicle connector housing does not have to be opened in order to replace the mating face frame.

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## EV-T2CCS-MF-M4X45 - Repair kit

1081734

<https://www.phoenixcontact.com/in/products/1081734>



CHARX connect standard, CCS type 2, Repair kit, Accessories, housing: black, with replaceable mating face frame, with 5x M4X45 rounded head screws with Torx security drive, for replacement of the mating face frame of vehicle charging connectors, IEC 62196-3, The vehicle connector housing does not have to be opened in order to replace the mating face frame.

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## EV-LABEL-K - Label

1309761

<https://www.phoenixcontact.com/in/products/1309761>

CHARX connect, Label, Accessories, for CCS-type-2 vehicle charging connector, DIN EN 17186



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## EV-LABEL-L - Label

1309765

<https://www.phoenixcontact.com/in/products/1309765>

CHARX connect, Label, Accessories, for CCS-type-2 vehicle charging connector, DIN EN 17186



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## G-INS-M32-L68N-PNES-BK - Cable gland

1424483

<https://www.phoenixcontact.com/in/products/1424483>



Cable gland, material for screw connection: PA, application: Standard, external cable diameter 18 mm ... 25 mm, shielding: no, connecting thread: M32 x 1.5, color: jet black RAL 9005

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## CHARX PS/3AC/920DC/87.5KW - DC power module

1162690

<https://www.phoenixcontact.com/in/products/1162690>



CHARX power basic, Fast charging module for setting up DC charging stations, Rack mounting, input: 3-phase, output: 200 V DC...920 V DC / 125 A. The corresponding system control cabinet CHARX PS-CAB/4x87.5KW (Item No. 1165442) is necessary for operating the DC power module

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## CHARX PS-M2/3AC/1000DC/30KW - DC power module

1232243

<https://www.phoenixcontact.com/in/products/1232243>

CHARX power basic, Fast charging module for setting up DC charging stations, 19" rack mounting, input: 3-phase, output: 30 V DC...1000 V DC / 0 A...100 A



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## CHARX PS-M2/825DC/1000DC/30KW - DC power module

1296467

<https://www.phoenixcontact.com/in/products/1296467>

CHARX power basic, Fast charging module for setting up DC charging stations, 19" rack mounting, output: 30 V DC...1000 V DC / 0 A...100 A



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