# DC charging cable - EV-T2M4CC-DC125A-4,0M50ESBK00 - 1621650

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DC charging cable, With vehicle charging connector and open cable end, Housing color black-gray, For charging electric vehicles (EV) with direct current (DC), For installation at charging stations for electromobility (EVSE), CCS type 2, Combined Charging System, IEC 62196-3, 125 A / 1000 V (DC), D-Line 1.0, “PHOENIX CONTACT” logo, cable: 4 m, black, straight

## Product Description

DC charging cable with Vehicle Connector and open cable end for fast charging of electric vehicles (EV) with direct current (DC) via CCS type 2 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

## Your advantages

- Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- Silver-plated surface of the power and signal contacts
- Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- Integrated temperature sensors for monitoring the temperature at the power contacts

RoHS

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 046356 950527 |
| GTIN | 4046356950527 |

## Technical data

### Product definition

| | |
|---|---|
| Type | DC charging cable |
| | With vehicle charging connector and open cable end |
| | Housing color black-gray |
| Application | For charging electric vehicles (EV) with direct current (DC) |
| | For installation at charging stations for electromobility (EVSE) |
| Affixed logo | “PHOENIX CONTACT” logo |
| Design | D-Line 1.0 |
| Standards/regulations | IEC 62196-3 |
| Charging standard | CCS type 2 |

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## Technical data

### Product definition

| | |
|---|---|
| | Combined Charging System |
| Charging mode | Mode 4 |

### Dimensions

| | |
|---|---|
| Height | 139 mm (Vehicle charging connector) |
| Width | 75 mm (Vehicle charging connector) |
| Depth | 267 mm (Vehicle charging connector) |
| Conductor length | 4 m |
| Stripping length | 140 mm ±10 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -30 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Max. altitude | 5000 m (above sea level) |
| Degree of protection | 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) |
| | IP20 (when not plugged in, the required IP24 degree of protection must be ensured by other means, e.g., by a holder, see accessories) |

### Electrical properties

| | |
|---|---|
| Maximum charging power | 125 kW |
| Number of power contacts | 3 (PE, DC+, DC-) |
| Rated current of power contacts | 125 A |
| Rated voltage for power contacts | 1000 V DC |
| Number of signal contacts | 2 (CP, PP) |
| Rated current for signal contacts | 2 A |
| Rated voltage for signal contacts | 30 V AC |
| Type of signal transmission | Pulse width modulation with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121 |
| Note on the connection method | Crimp connection, cannot be disconnected |
| Resistor coding | 1500 Ω (between PE and PP) |
| Temperature monitoring | 2x Pt 1000 |

### Mechanical properties

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

### Design

| | |
|---|---|
| Design line | Standard |
| Housing color | black |
| Mating face color | black |
| Color handle area | gray |
| Label | 14.1 mm x 44.8 mm (customer logo on request) |

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## Technical data

### Material

| | |
|---|---|
| Housing material | Plastic |
| Material handle area | Soft plastic |
| Material mating face | Plastic |
| Flammability rating | V0 |
| Material surface of contacts | Ag |

### Cable

| | |
|---|---|
| Cable structure | 2 x 50 mm² + 1 x 25 mm² + 3 x 2 x 0.75 mm² |
| Wiring standards/regulations | prEN 50620 / DIN EN 50620 |
| Wiring class | Class 6 |
| Wiring certifications | VDE-Reg. 8798 |
| External cable diameter | 28.1 mm ±0.5 mm |
| Type of conductor | straight |
| Cable resistance | ≤ 0.00039 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Outer sheath, material | TPE-U |
| External sheath, color | black |
| Minimum bending radius | 281 mm (10 x diameter) |
| Cable weight | max. 1620 kg/km |

### Temperature sensors

| | |
|---|---|
| Type of sensor | Pt 1000 |
| Standards/regulations | DIN EN 60751 |
| Recommended measured current | 1 mA (1 V at 0°C) |
| Tolerance at the sensor with the recommended measured current | ±1K |
| Temperature range | -50 °C ... 130 °C |
| Temperature coefficient (TCR) | 3850 ppm/K |
| Long-term stability (max. R0-Drift) | 0.06 % (After 1000 hours at 130°C) |
| Shutdown temperature | 90 °C equivalent to a Pt 1000 value of 1346.5 Ω |

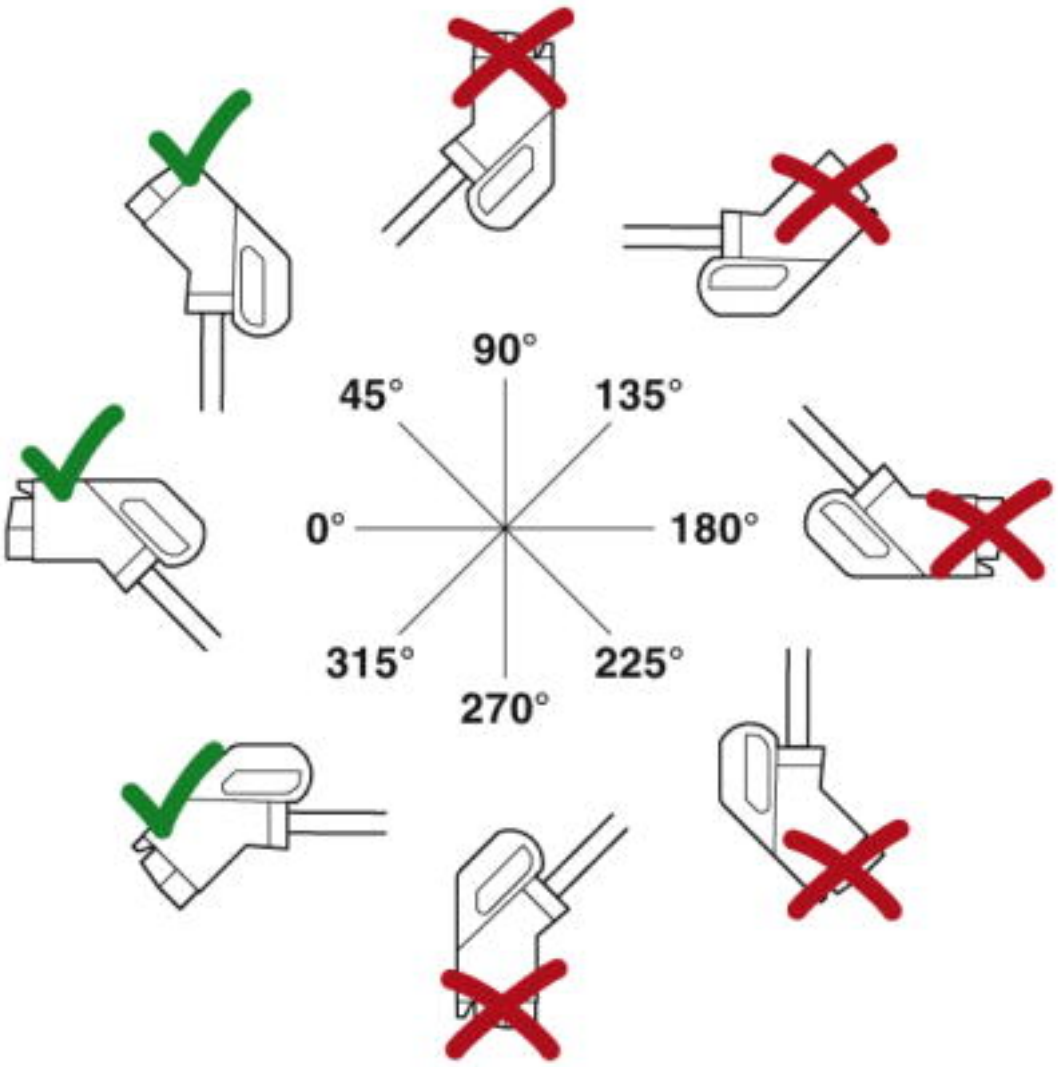
### Environmental Product Compliance

| | |
|---|---|
| REACh SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 10; |
| | For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration” |

## Drawings

# DC charging cable - EV-T2M4CC-DC125A-4,0M50ESBK00 - 1621650

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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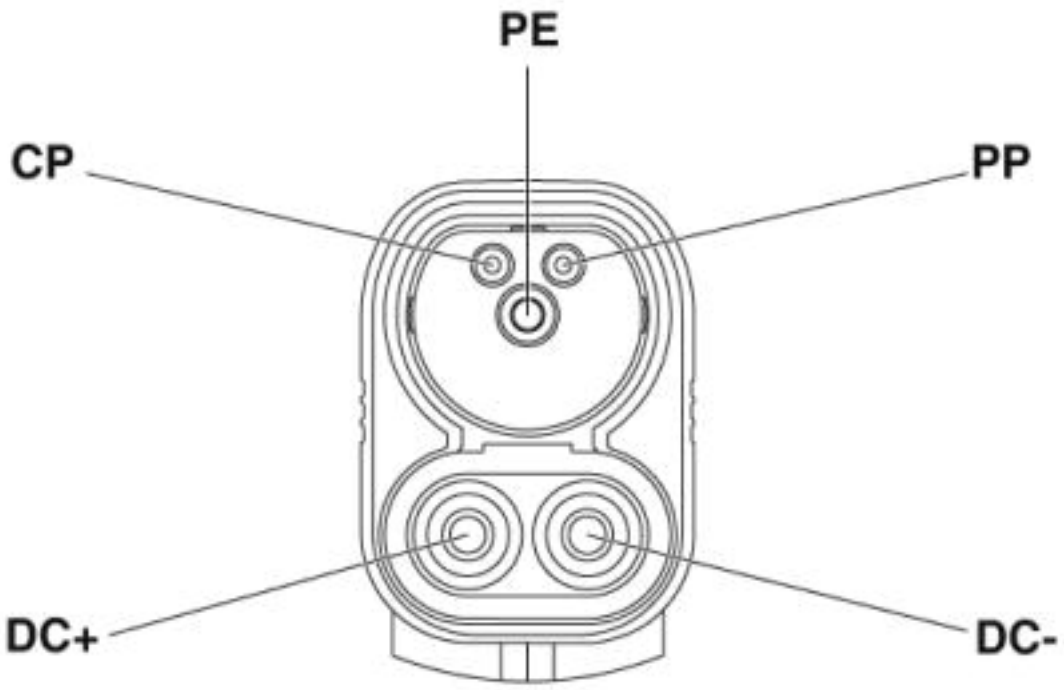
Schematic diagram




Pin assignment of the Vehicle Connector

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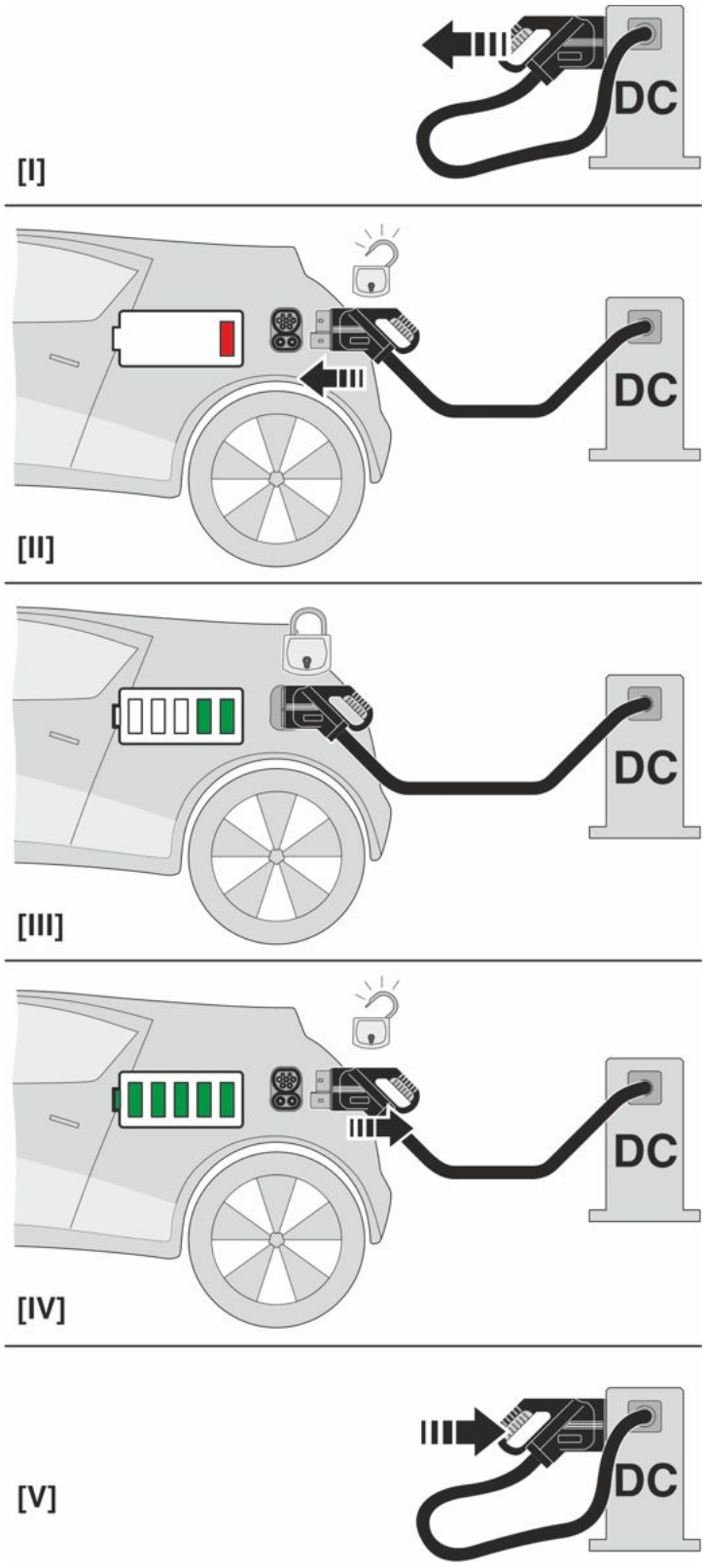
Schematic diagram



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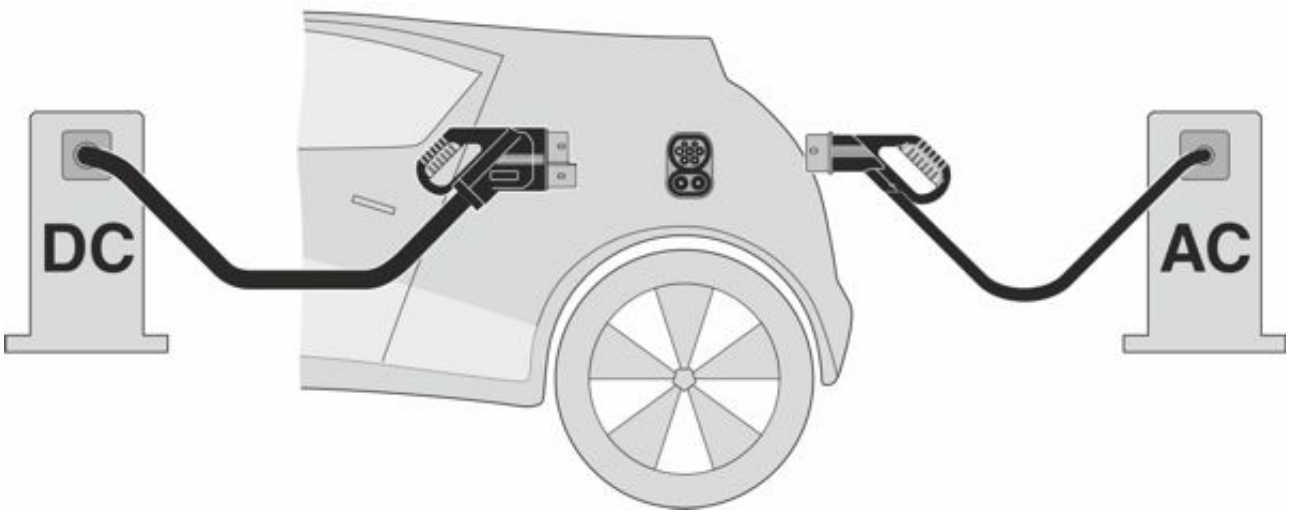
Schematic diagram




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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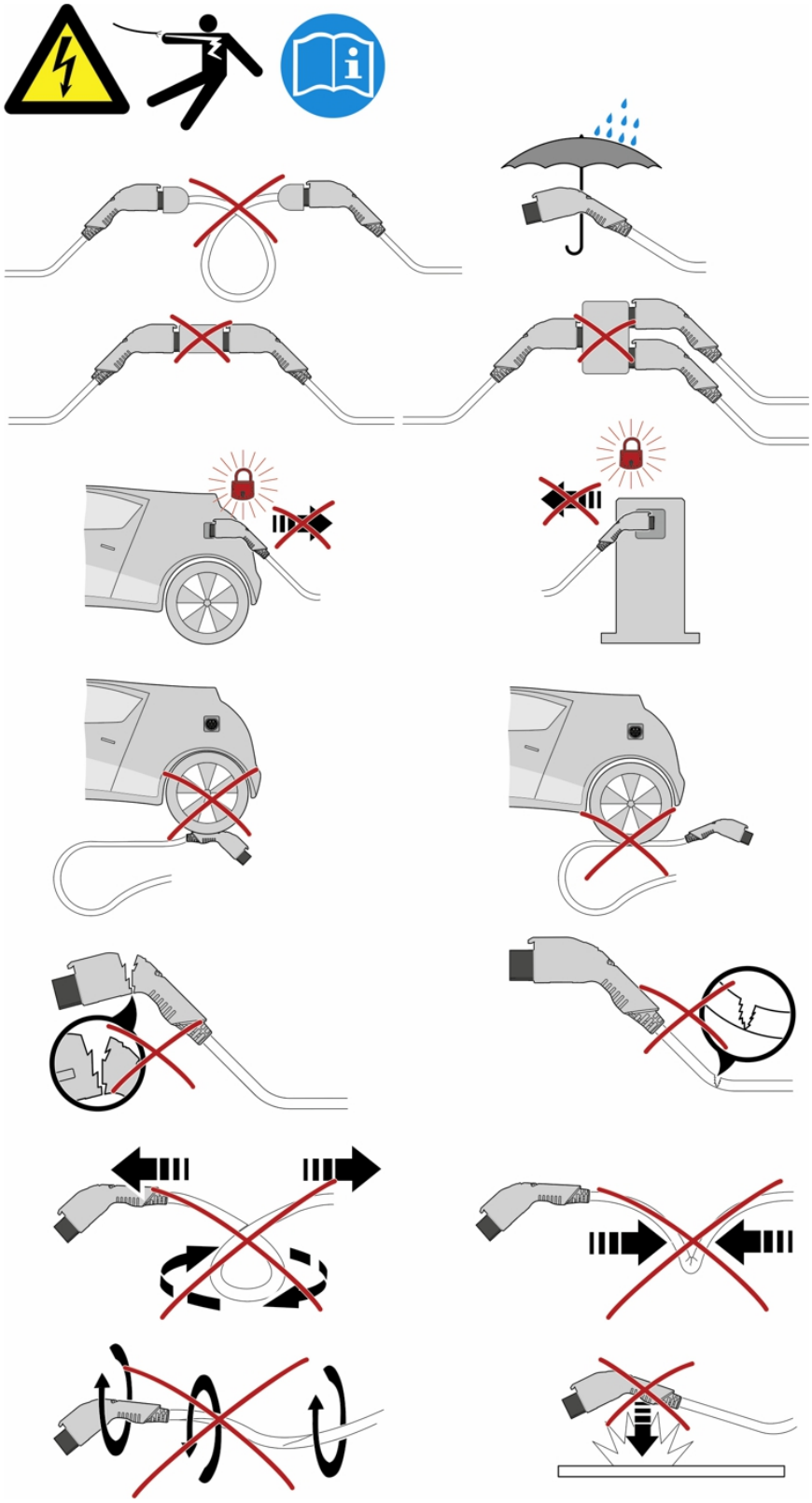
Schematic diagram



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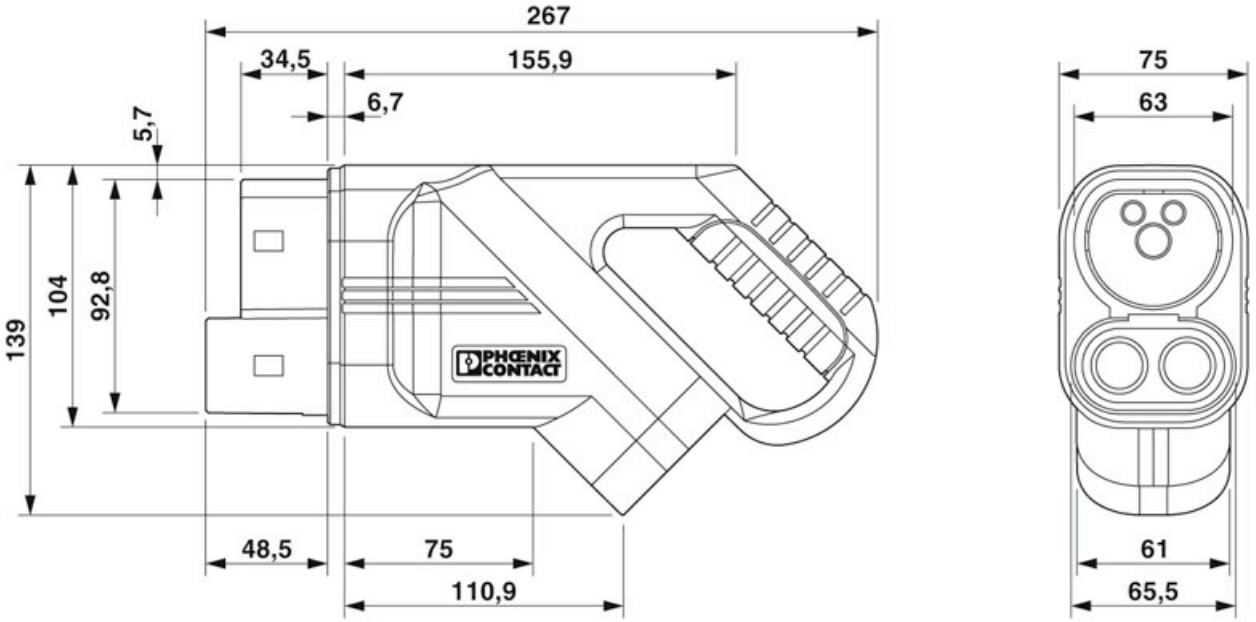
Dimensional drawing




Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27144705 |
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27143400 |
| eCl@ss 7.0 | 27449001 |

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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 8.0 | 27449001 |
| eCl@ss 9.0 | 27144705 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 5.0 | EC002839 |
| ETIM 6.0 | EC002897 |
| ETIM 7.0 | EC002897 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |
| UNSPSC 18.0 | 39121522 |
| UNSPSC 19.0 | 39121522 |
| UNSPSC 20.0 | 39121522 |
| UNSPSC 21.0 | 39121522 |

## Approvals

### Approvals

Approvals

IECEE CB Scheme

Ex Approvals

### Approval details

| | | | |
|---|---|---|---|
| IECEE CB Scheme | CB scheme | http://www.iecee.org/ | DE1-59626 |

| | |
|---|---|
| Nominal voltage UN | 1000 V |
| Nominal current IN | 125 A |

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## Accessories

### Accessories

DC charging controller

DC charging controller - EV-PLCC-AC1-DC1 - 1624130

Programmable charging controller for DC and AC charging of electric vehicles in accordance with IEC 61851-1,-23, DIN SPEC 70121 with integrated 3G mobile network modem

Park position

Park position - EV-T2CCS-PARK - 1624153

Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), CCS type 2, IEC 62196-3, Front mounting



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