

## DC charging cable - EV-T1L2CC-DC60A-25FT6ASBK01 - 1627782

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DC charging cable, DC charging cable with vehicle connector, open cable end, CCS type 1, Combined Charging System, SAE J1772, IEC 62196-3, 60 A / 600 V (DC), design line Standard, cable: 25 ft, black, straight, NOTE: Cable management may be required., mating face: black, handle area: gray

### 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 1 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
- ✓ Material data available in the IMDS (International Material Data System of the automotive industry)
- ✓ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✓ Integrated temperature sensors for monitoring the temperature at the power contacts

### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 1 pc          |
| GTIN         |               |
| GTIN         | 4055626355276 |

### Technical data

#### Product definition

|                       |  |
|-----------------------|--|
| Product type          | DC charging cable with vehicle connector, open cable end |
| Standards/regulations | SAE J1772  |
|                       | IEC 62196-3  |
| Charging standard     | CCS type 1   |
|                       | Combined Charging System                                 |
| Charging mode         | Mode 4   |
| Note                  | NOTE: Cable management may be required.                  |

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## Technical data

### Product definition

|  |   |
|--|---|
|  | Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1). |
|--|---|

### Dimensions

|                          |               |
|--------------------------|---------------|
| Vehicle connector width  | 67.90 mm      |
| Vehicle connector height | 140.80 mm     |
| Vehicle connector depth  | 260.00 mm     |
| Conductor length         | 25 ft         |
|                          | 25 ft         |
| Stripping length         | 130 mm ±20 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                    | 3R (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) |

### Electrical properties

|                                   |   |
|-----------------------------------|---|
| Maximum charging power            | 36 kW   |
| Number of power contacts          | 3 (PE, DC+, DC-)  |
| Rated current of power contacts   | 60 A  |
| Rated voltage for power contacts  | 600 V DC  |
| Number of signal contacts         | 2 (CP, CS)  |
| 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                   | 480 Ω (Lever actuated)  |
|                                   | 150 Ω (Lever not actuated)  |
| Temperature monitoring            | 2x Pt 1000  |

### Mechanical properties

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 75 N  |
| Withdrawal force            | < 75 N  |

### Design

|                         |          |
|-------------------------|----------|
| Design line             | Standard |
| Housing color           | black    |
| Mating face color       | black    |
| Color handle area       | gray     |
| Actuating element color | gray     |

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### Design

|                      |  |
|----------------------|--|
| Color protective cap | black  |
| Label                | 14.1 mm x 44.8 mm (customer logo on request) |

### Material

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

### Cable

|                              |                            |
|------------------------------|----------------------------|
| Cable structure              | 3 x 6 AWG + 3 x 2 x 18 AWG |
| Wiring standards/regulations | UL 62                      |
|                              | FFSO7.E343212              |
| External cable diameter      | 27 mm ±0.4 mm              |
| Type of conductor            | straight                   |
| Outer sheath, material       | TPE                        |
| External sheath, color       | black                      |
| Minimum bending radius       | 405 mm (15 x diameter)     |

### 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 |

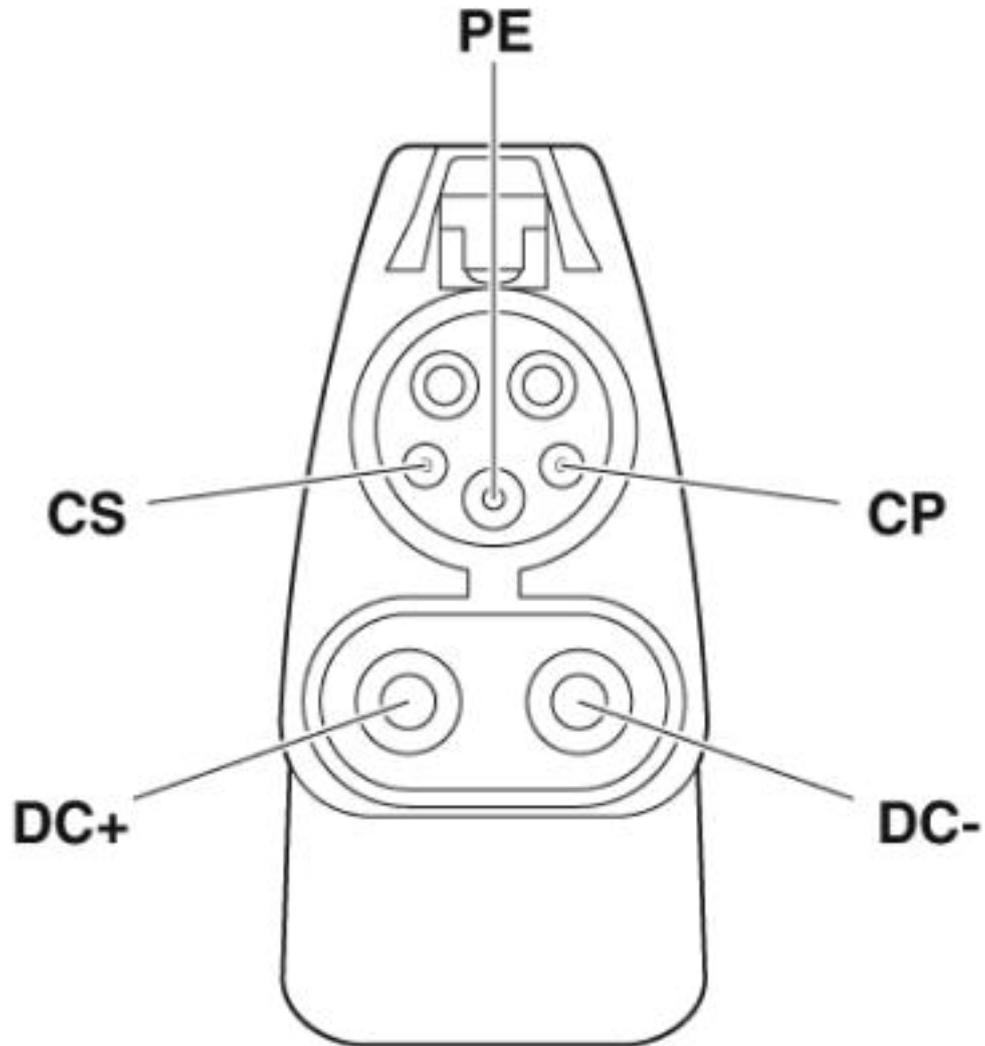
### Environmental Product Compliance

|            |   |
|------------|---|
|            | 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

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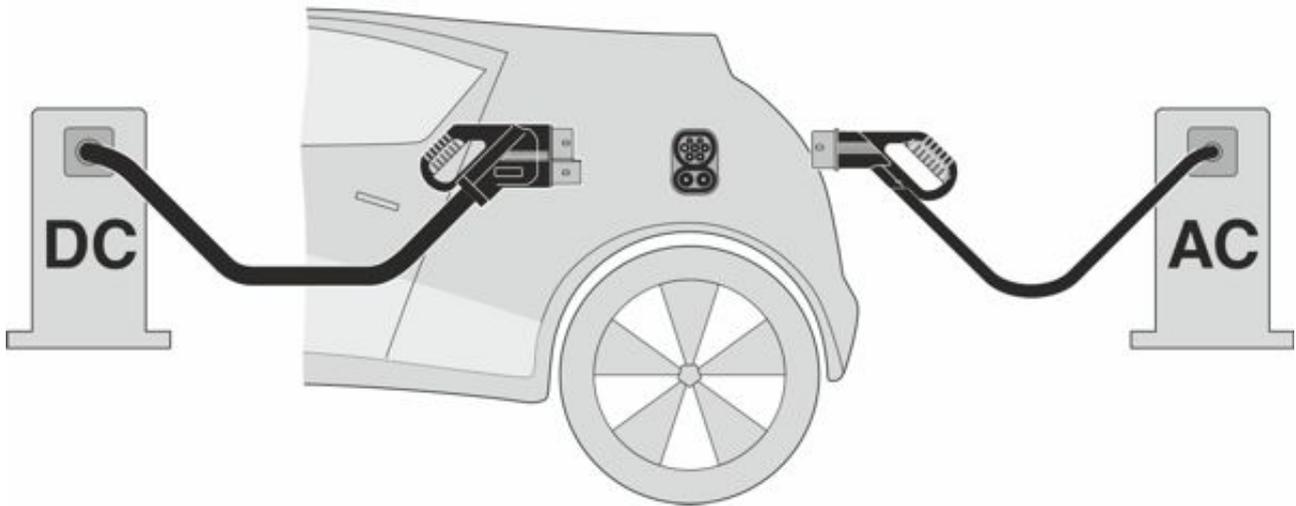
Connection diagram



Pin assignment of the Vehicle Connector

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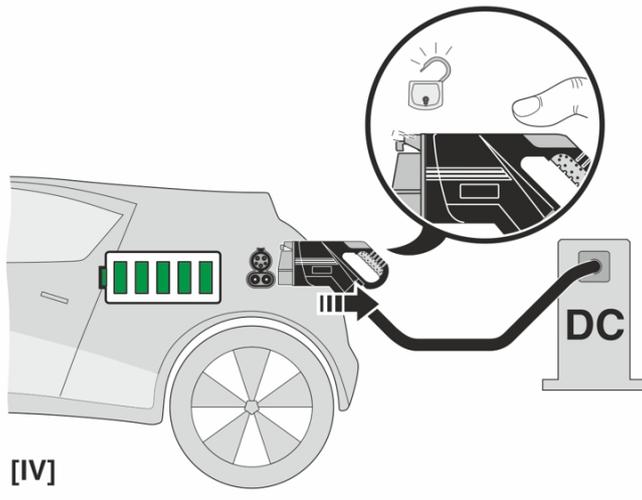
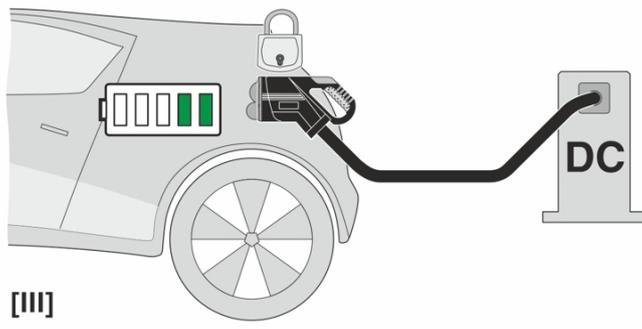
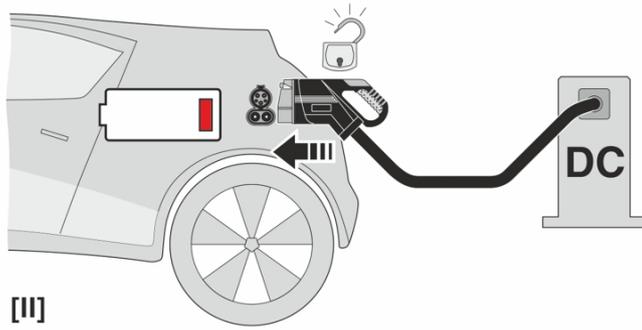
Schematic diagram



"Combined Charging System" principle

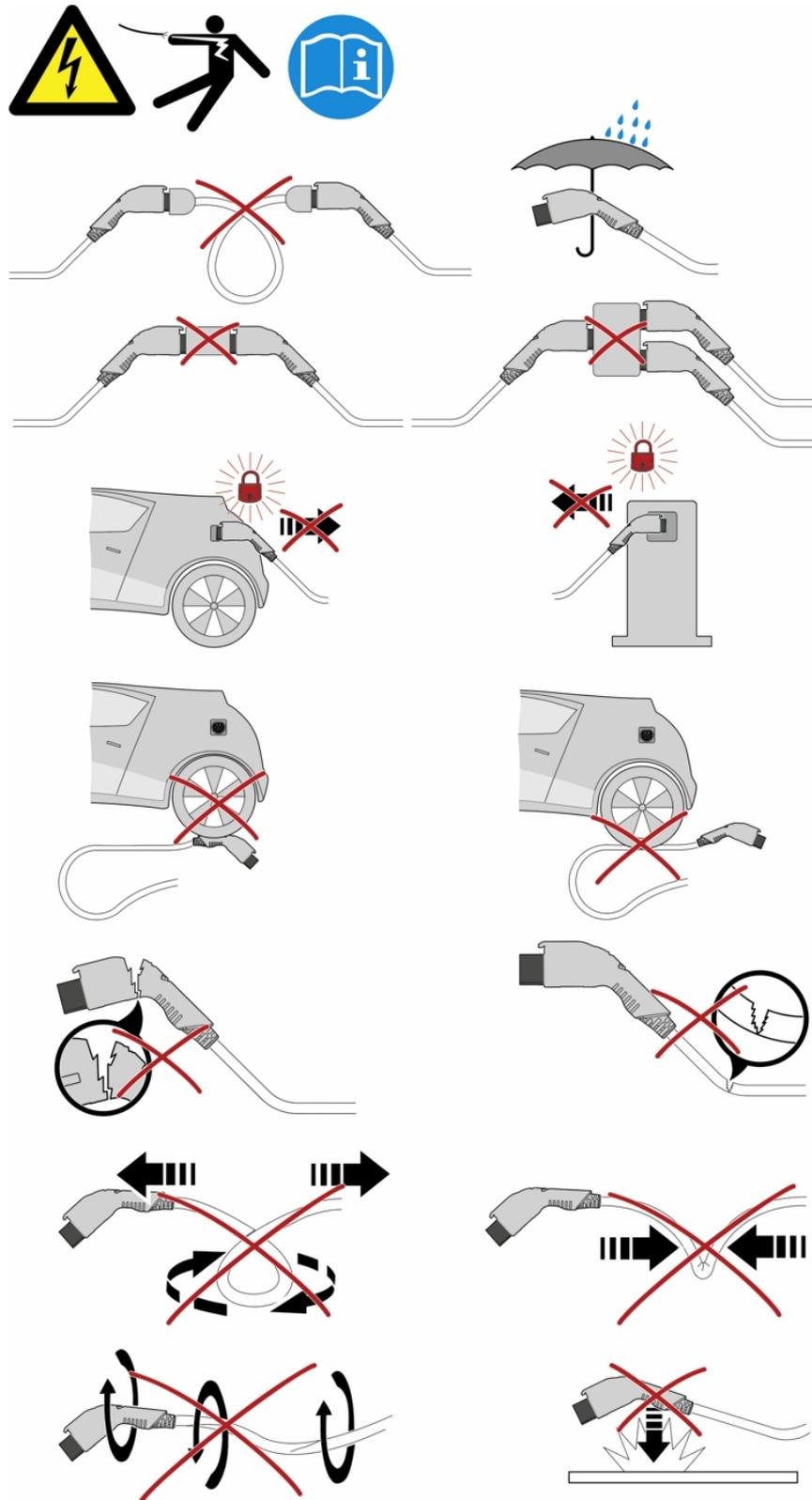
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Schematic diagram



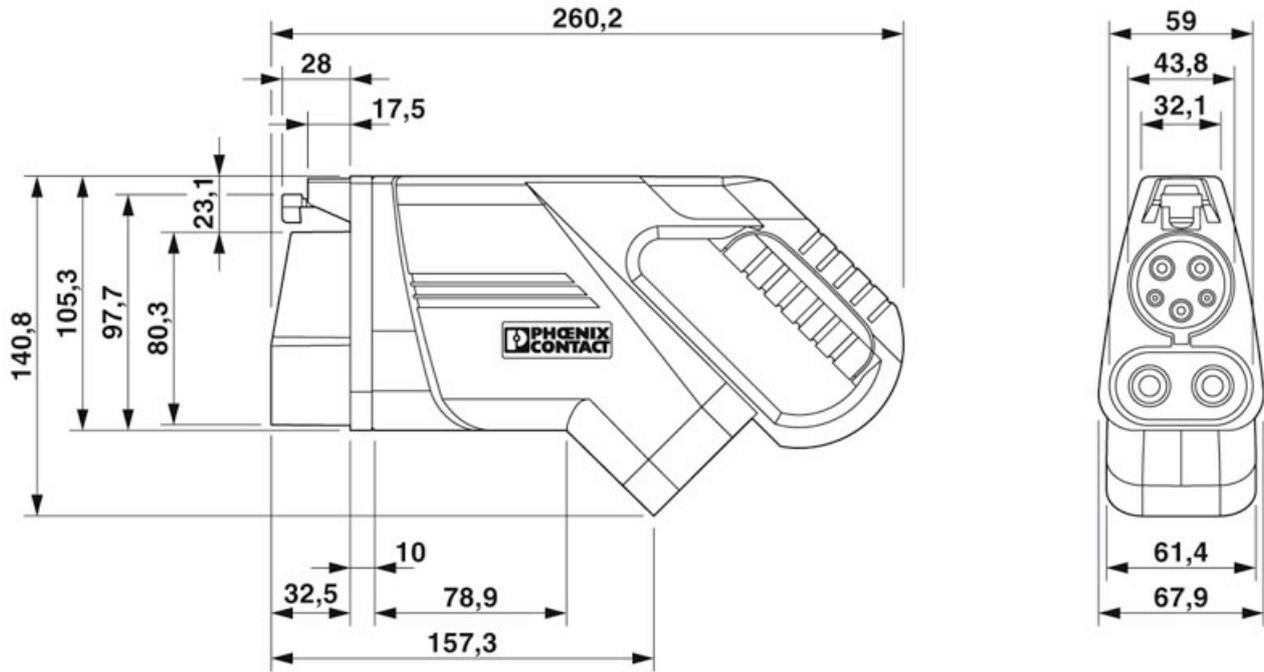
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Schematic diagram



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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.

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