

## DC charging cable - EV-T1L2CC-DC60A-4,0M6ASBK01 - 1627762

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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: 4 m, black, straight, 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	4055626352299

### 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

#### Dimensions

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## Technical data

### Dimensions

Vehicle connector width	67.90 mm
Vehicle connector height	140.80 mm
Vehicle connector depth	260.00 mm
Conductor length	4 m
	4 m
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
Color protective cap	black
Label	14.1 mm x 44.8 mm (customer logo on request)

### Material

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### Technical data

#### 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

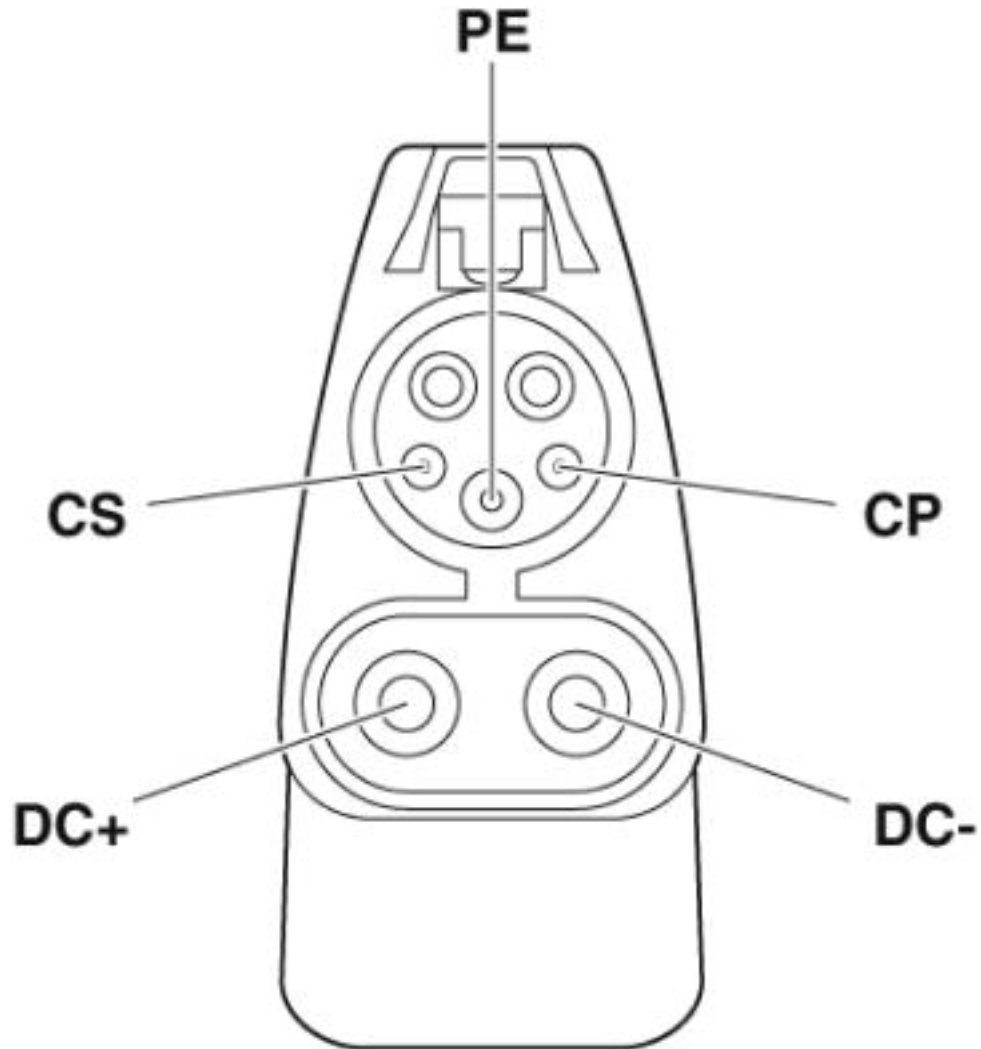
#### Environmental Product Compliance

	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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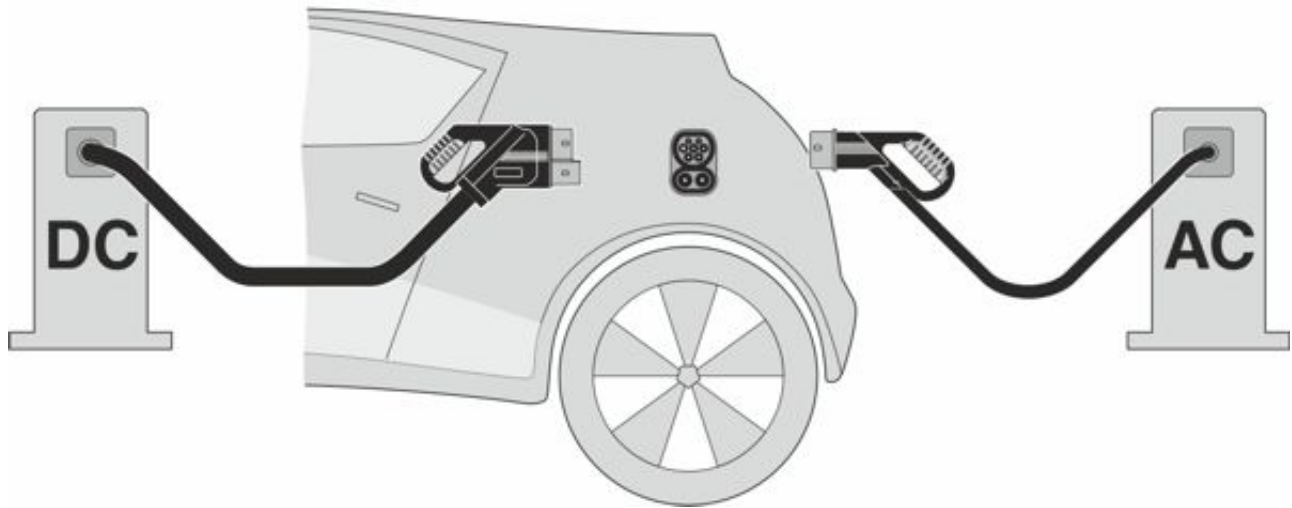
Connection diagram



Pin assignment of the Vehicle Connector

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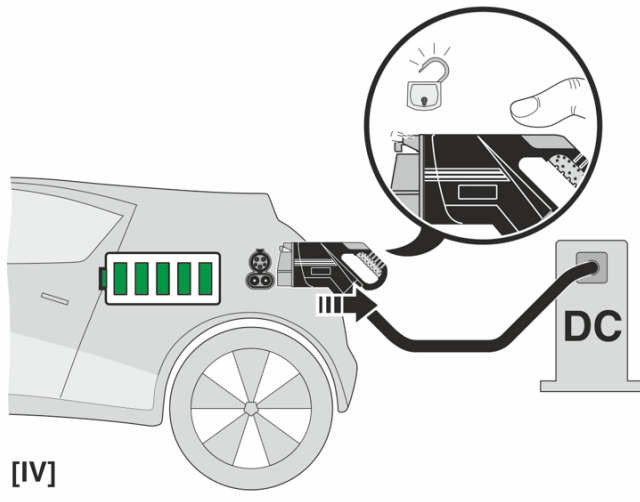
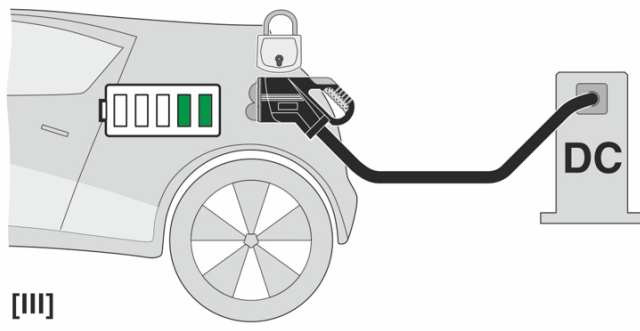
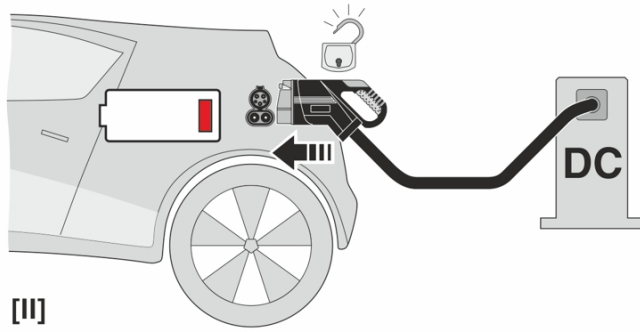
Schematic diagram



"Combined Charging System" principle

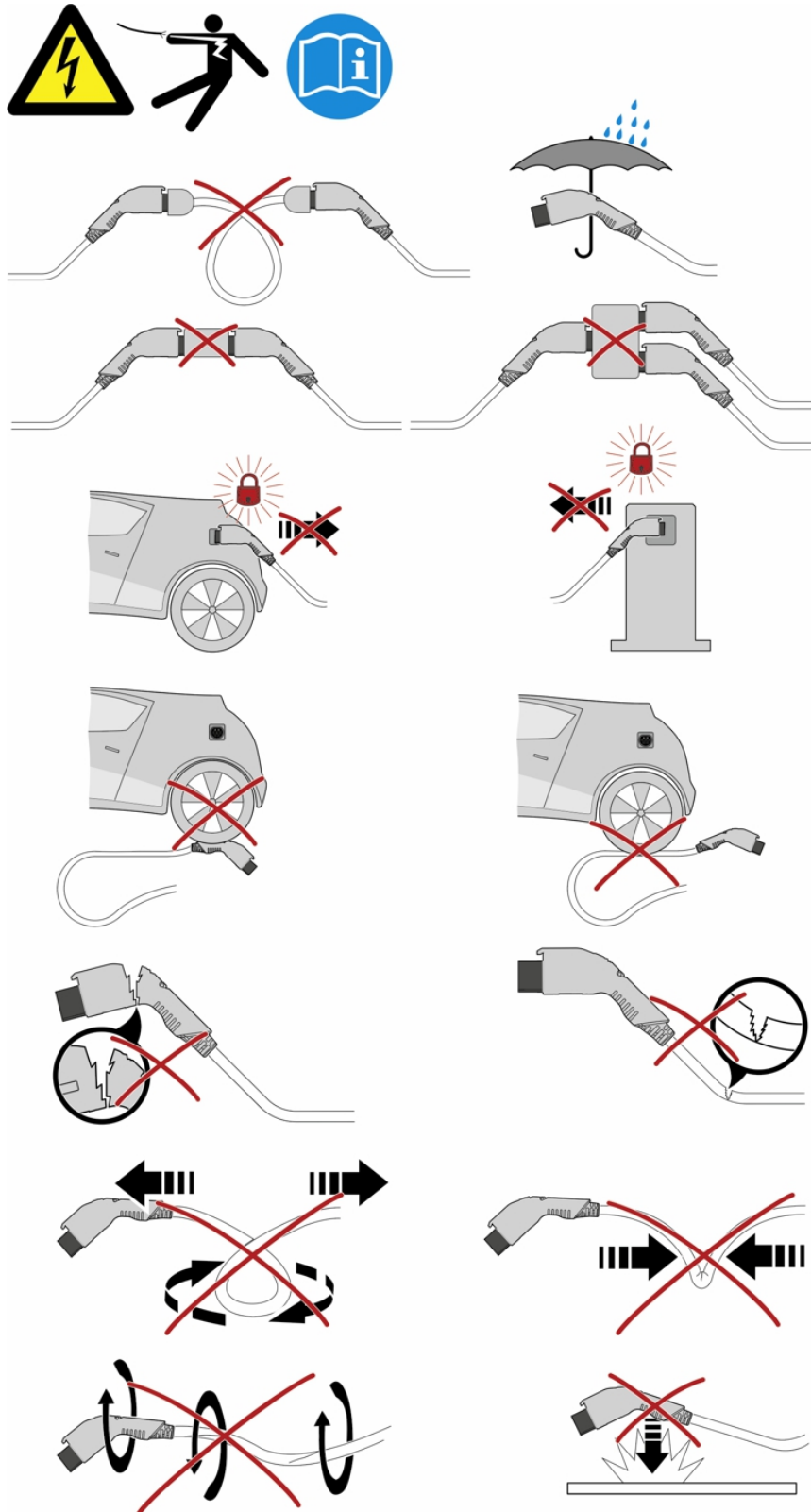
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Schematic diagram



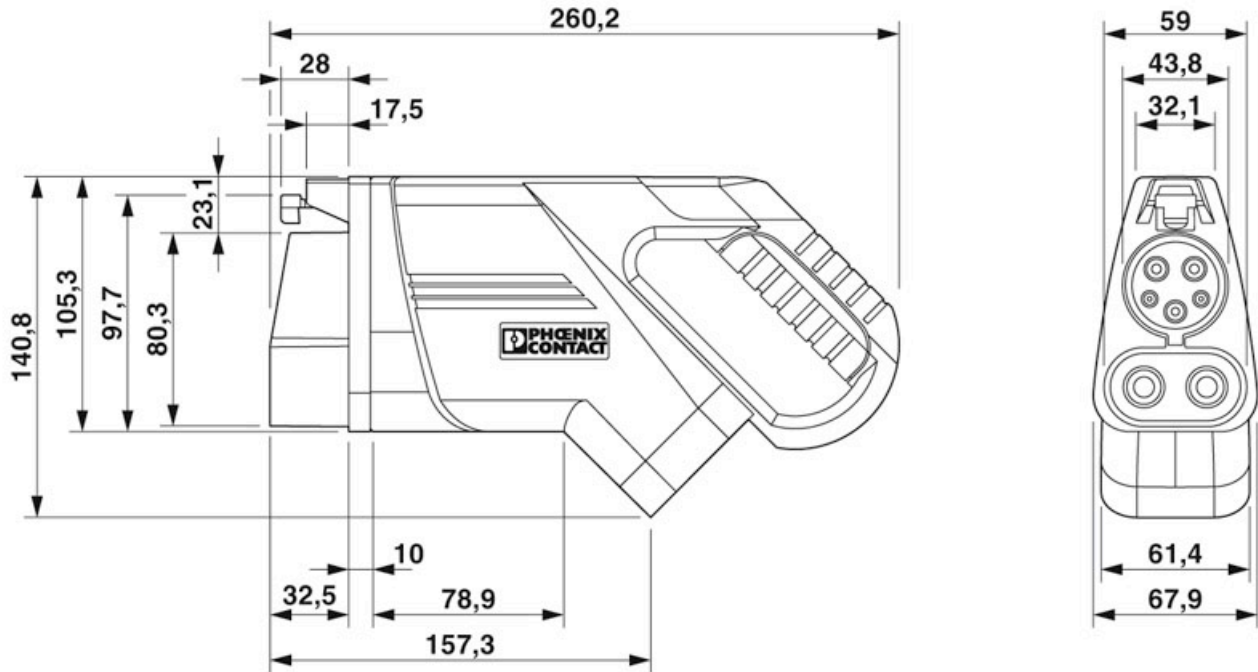
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Schematic diagram



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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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PHOENIX CONTACT GmbH & Co. KG  
Flachmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>