

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

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DC charging cable with vehicle connector, open cable end, CCS type 2, Combined Charging System, IEC 62196-3, 125 A / 1000 V (DC), design line Standard, cable: 4 m, black, straight, connection profile: 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 2 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

Why buy this product

- 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 STK
GTIN	 4 046356 950527
GTIN	4046356950527

Technical data

Product definition

Product type	DC charging cable with vehicle connector, open cable end
Standards/regulations	IEC 62196-3
Charging standard	CCS type 2
	Combined Charging System
Charging mode	Mode 4

Dimensions

Vehicle connector width	75.00 mm
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Dimensions

Vehicle connector height	139.00 mm
Vehicle connector depth	267.00 mm
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)
	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
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
Pin connector pattern color	black
Color handle area	gray
Label	14.1 mm x 44.8 mm (customer logo on request)

Material

Housing material	Plastic
Material handle area	Soft plastic
Material connection profile	Plastic
Flammability rating	V0
Material surface of contacts	Ag

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Technical data

Cable

Cable structure	2 x 50 mm ² + 1 x 25 mm ² + 3 x 2 x 0.75 mm ²
Wiring standards/regulations	prEN 50620
Wiring class	Class 6
Wiring certifications	VDE-Reg. 8798
External cable diameter	28.2 mm ±0.2 mm
Type of conductor	straight
Outer sheath, material	HFFR
External sheath, color	black
Minimum bending radius	423 mm (15 x diameter)

Temperature sensors

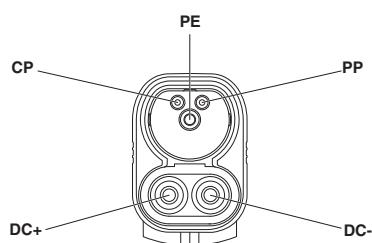
Type of sensor	Pt 1000
Standards/regulations	DIN EN 60751
Recommended measured current	1 mA (1 V at 0°C)
Tolerance at the sensor with the recommended measured current	±1K
Temperature range	-50 °C ... 130 °C
Temperature coefficient (TCR)	3850 ppm/K
Long-term stability (max. R0-Drift)	0.06 % (After 1000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

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

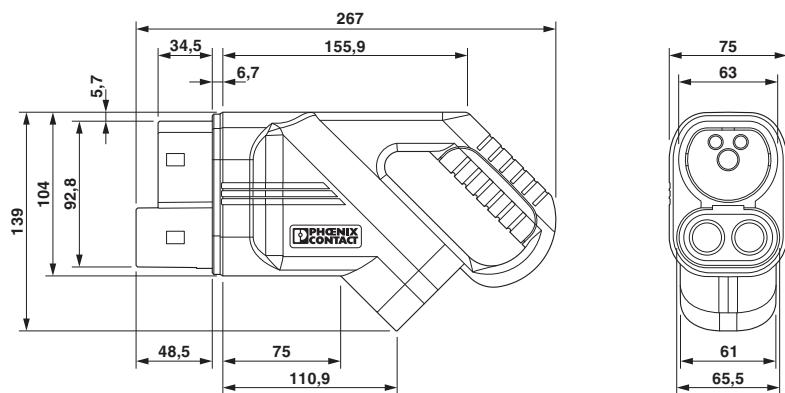
Schematic diagram



Pin assignment of the Vehicle Connector

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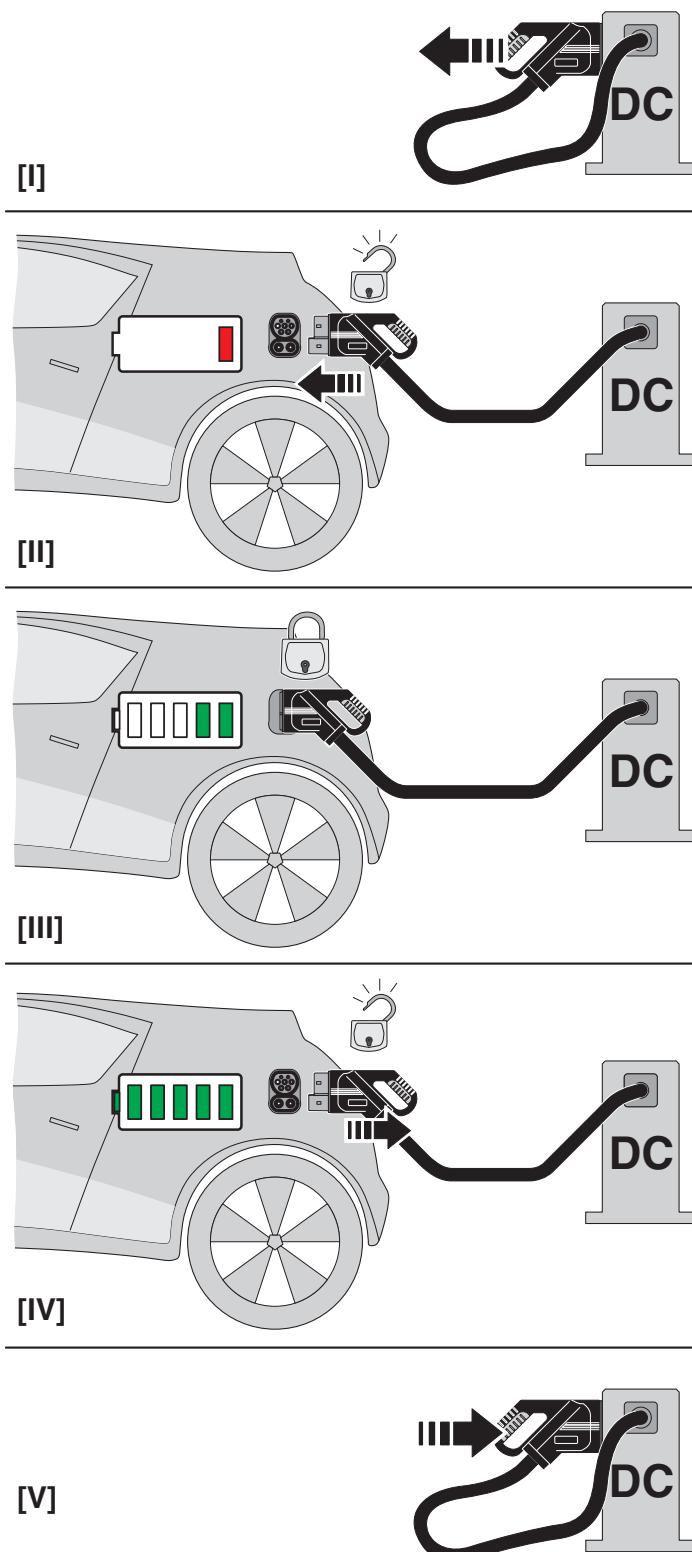
Dimensional drawing



Dimensional drawing of Vehicle Connector

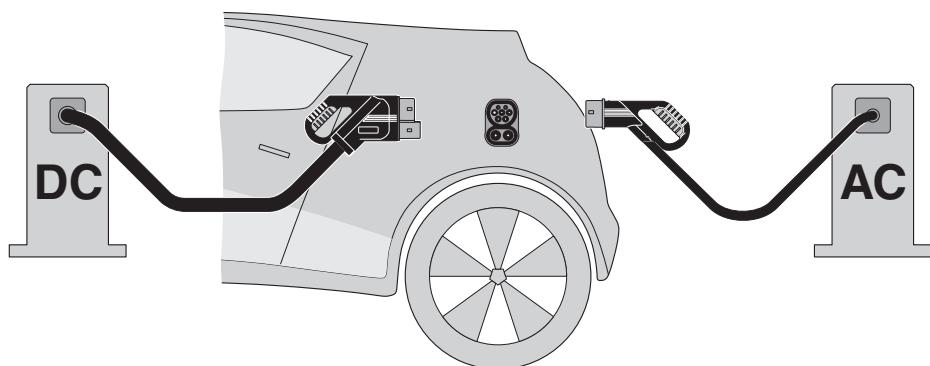
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Schematic diagram



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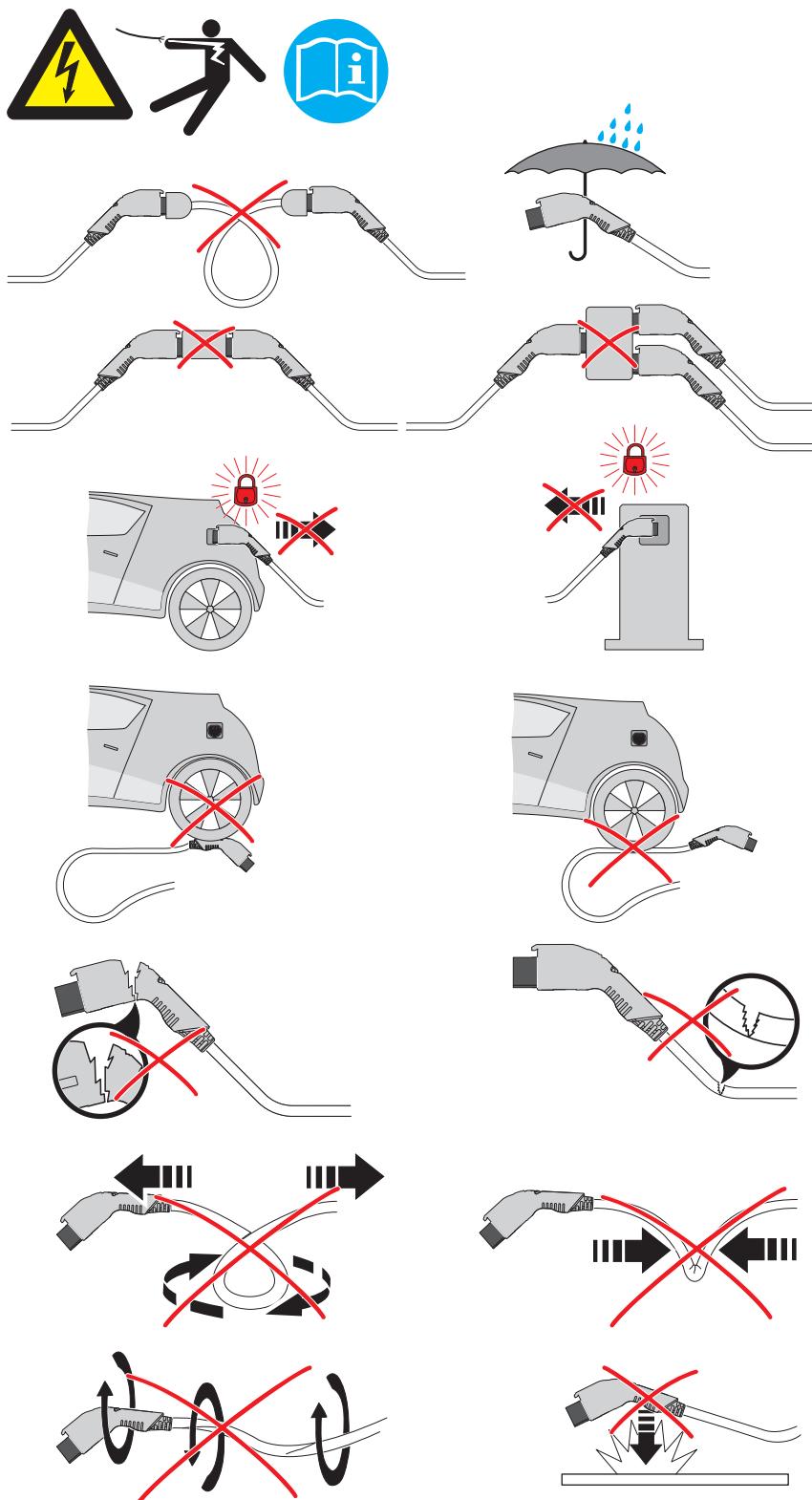
Schematic diagram



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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Approvals

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VDE approval of drawings / IEC62675 CB Scheme

Ex Approvals

Approval details

VDE approval of drawings		http://www.vde.com/en/Institute/OnlineService/ VDE-approved-products/Pages/Online-Search.aspx	40040872
Nominal current IN		125 A	
Nominal voltage UN		1000 V	

IECEE CB Scheme		http://www.iecee.org/	DE1-59626
Nominal current IN		125 A	
Nominal voltage UN		1000 V	

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