

# EV-T2M4CC-DC250A-6,0M70ESBK11 - DC charging cable



1130331

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CHARX connect standard, CCS type 2, DC charging cable, up to 500 A in Boost mode, 250 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 6 m, black, straight, with connected PP contact, with replaceable mating face frame, with analog temperature sensors, PHOENIX CONTACT logo, 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	1130331
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBMFF
GTIN	4063151058968
Weight per piece (including packing)	14,680 g
Weight per piece (excluding packing)	14,510 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
Technology	Combined Charging System
Application	for charging electric vehicles (EV) with direct current (DC) for installation at charging stations for electromobility (EVSE)
Design	with connected PP contact with replaceable mating face frame with analog temperature sensors
Charging standard	CCS type 2
Charging mode	Mode 4
Affixed logo	PHOENIX CONTACT logo
Label	14.1 mm x 44.8 mm (customer logo on request)

### Electrical properties

Temperature monitoring	2x Pt 1000
Charging power and current (DC charging)	
Type of charging current	DC
Charging current	250 A DC
Charging power	250 kW
Rated voltage	1000 V

### Charging power and current (DC charging in Boost Mode)

Type of charging current	DC Boost Mode
Charging current	up to 500 A DC
Charging power	up to 500 kW
Rated voltage	1000 V
Note	The specifications refer to charging in Boost Mode and are dependent on ambient conditions. For further details, see the packing slip in the download area.

### Pin assignment (Leistungskontakte)

Note on the connection method	Crimp connection, cannot be disconnected
Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	250 A (up to 40 °C)

### Pin assignment (Signalkontakte)

Note on the connection method	Crimp connection, cannot be disconnected
Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Number	2 (CP, PP)

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Rated voltage	30 V AC
Rated current	2 A
Coding	1500 $\Omega$ (between PE and PP) PP signal contact connected to cable

## Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	Sensor for the DC contacts
Switch-off temperature	90 $^{\circ}$ C $\pm$ 1 K (equivalent to a Pt 1000 value of 1346.5 $\Omega$ )
Long-term stability	0.06 % (after 1000 hours at 130 $^{\circ}$ C)
Recommended measured current	1 mA (1 V at 0 $^{\circ}$ C)
Coefficient	3850 ppm/K
Ambient temperature	-50 $^{\circ}$ C ... 130 $^{\circ}$ 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
Note	The color appearance and gloss level of the charging cable may vary.

## Cable/line

Cable length	6 m $\pm$ 45 mm
Wiring standards/regulations	DIN EN 50620
Wiring certifications	VDE-Reg.
Cable weight	max. 2300.00 kg/km
Cable type	Class 6
Cable type	straight
Cable structure	2 x 70 mm <sup>2</sup> + 1 x 35 mm <sup>2</sup> + 3 x 2 x 0.75 mm <sup>2</sup>
External cable diameter	32.00 mm $\pm$ 0.4 mm
Outer sheath, material	TPE-U
Stripping length of the sheath	140 mm $\pm$ 10 mm

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Stripping length	140 mm $\pm 10$ mm
Cable resistance	$\leq 0.000272 \Omega/m$ (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 320 mm (10x Ø)

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Vehicle charging connector)	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensured if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
Ambient temperature (operation)	-30 °C ... 40 °C
	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

### Standards

Standards/regulations	IEC 62196-3
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# EV-T2M4CC-DC250A-6,0M70ESBK11 - DC charging cable

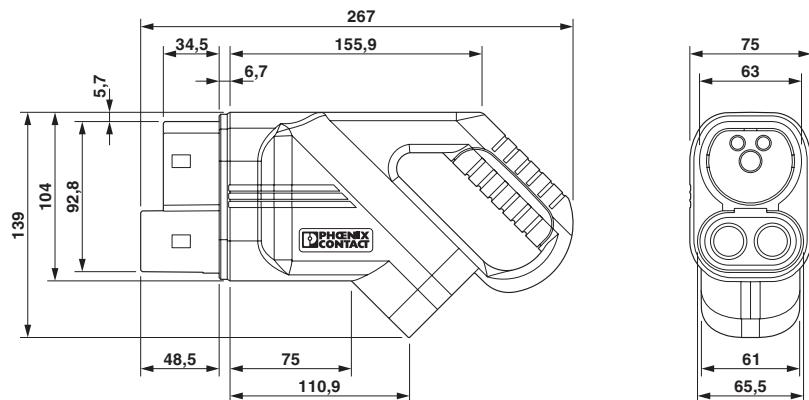


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## Drawings

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.

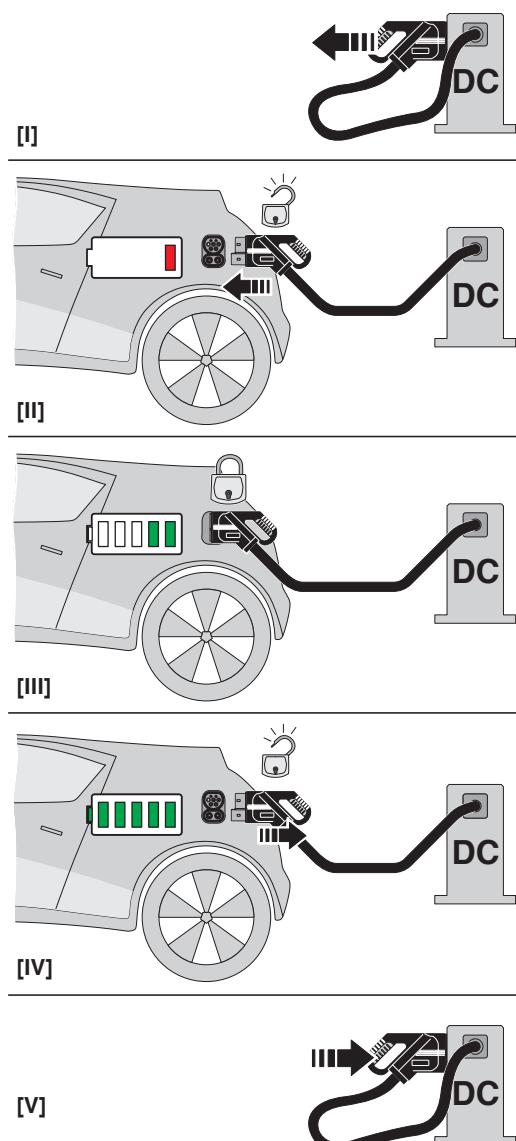
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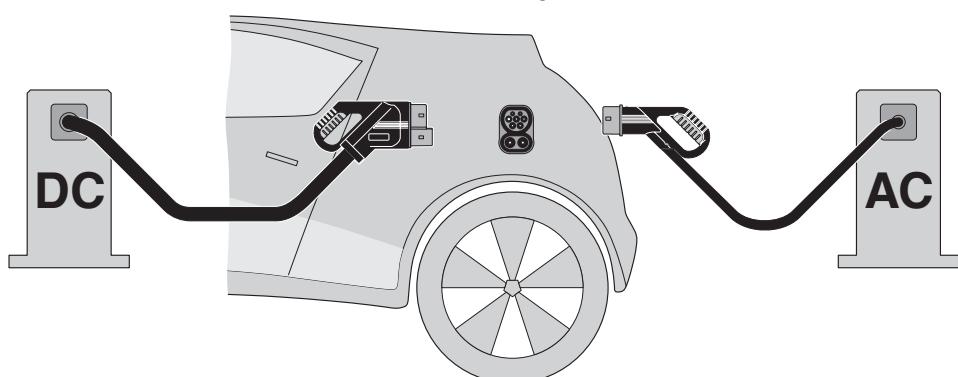
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Schematic diagram



Operating instructions

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.

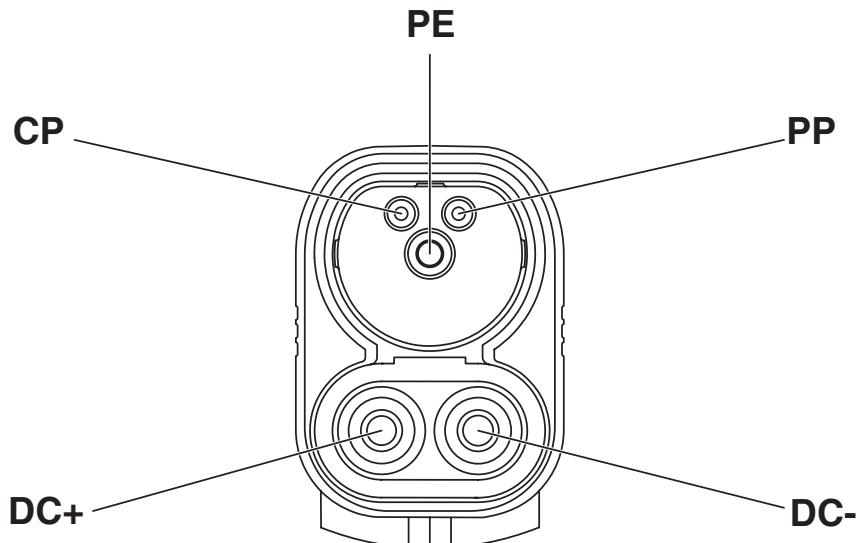
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Schematic diagram



Pin assignment of the Vehicle Connector

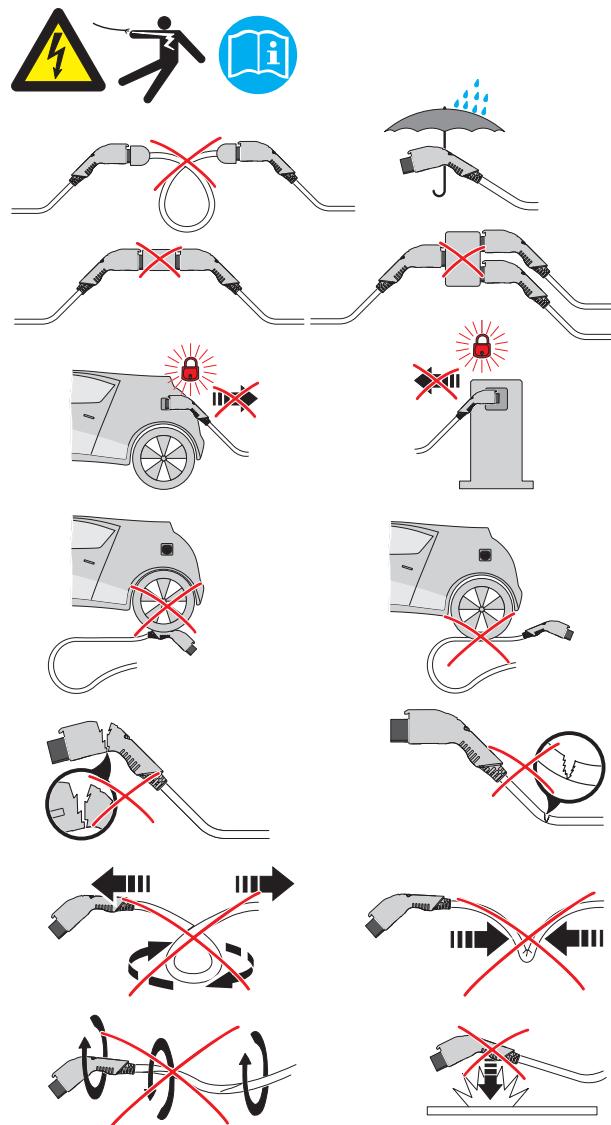
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Schematic diagram

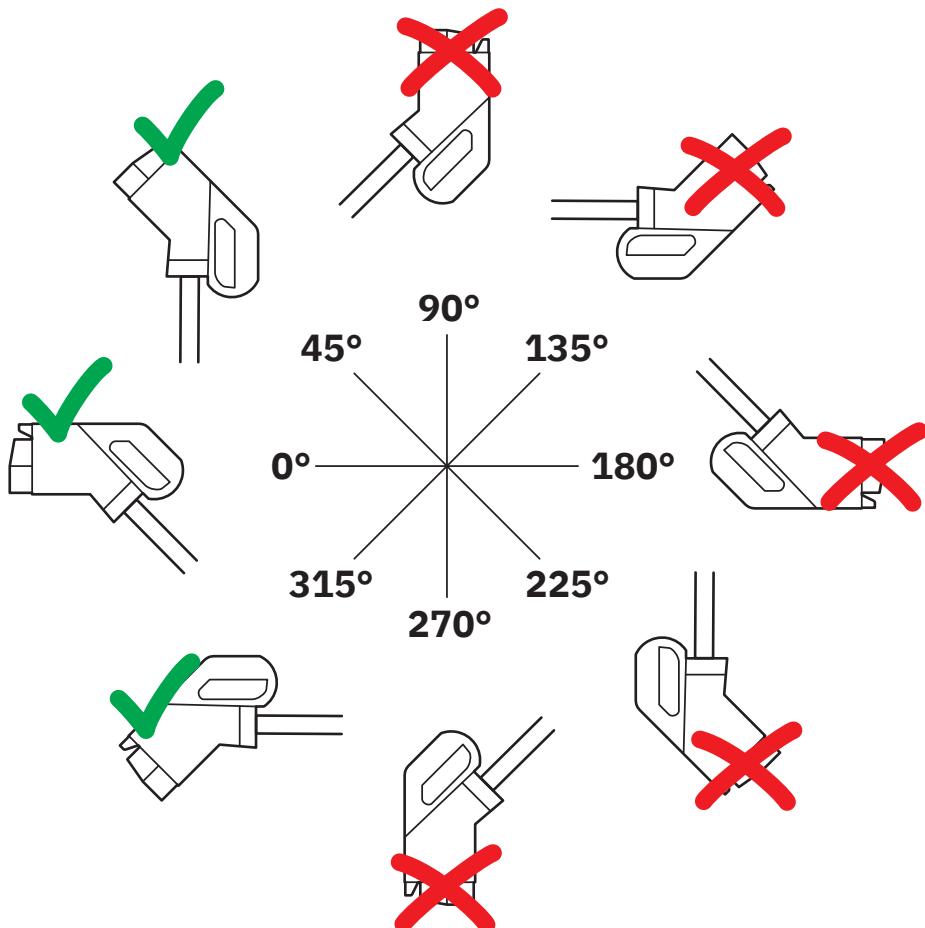


Warnings regarding use

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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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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1130331>

IECEE CB Scheme		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		1000 V	250 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

### ETIM

ETIM 9.0	EC002897
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
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)
	Bis(2-(2-methoxyethoxy)ethyl)ether(CAS: 143-24-8)
SCIP	bdeeac11-79d0-439e-a80c-5deb77deee2e

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