

# EV-T2M4CC-DC250A-9,0M70ESBK11 - DC charging cable



1130339

<https://www.phoenixcontact.com/us/products/1130339>

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CHARX connect standard, DC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with direct current (DC), with connected PP contact, with replaceable mating face frame, with analog temperature sensors, CCS type 2, IEC 62196-3, 250 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 9 m, black, straight, NOTE: Cable management may be required.

## 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	1130339
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBAAD
GTIN	4063151058760
Weight per piece (including packing)	11,261 g
Weight per piece (excluding packing)	11,261 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
Application	for charging electric vehicles (EV) with direct current (DC) for installation at charging stations for electromobility (EVSE)
Type	DC charging cable with vehicle charging connector and open cable end
Design	with connected PP contact with replaceable mating face frame with analog temperature sensors
Technology	Combined Charging System
Affixed logo	PHOENIX CONTACT logo
Label	14.1 mm x 44.8 mm (customer logo on request)
Charging standard	CCS type 2
Charging mode	Mode 4

### Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Note on the connection method	Crimp connection, cannot be disconnected
Coding	1500 $\Omega$ (between PE and PP) PP signal contact connected to cable
Temperature monitoring	2x Pt 1000
Type of charging current	DC
Charging power	250 kW
Charging current	250 A
Type of charging current	DC Boost Mode
Charging power	up to 500 kW (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)
Charging current	up to 500 A (Boost Mode, depending on the ambient conditions. For detailed information, see the packing slip in the download area for this item.)

### Power contact

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	250 A (up to 40 °C)

### Signal contact

Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A

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## Temperature sensors (Pt 1000)

Sensor type	Pt 1000
Standards/regulations	DIN EN 60751
Attachment point	Sensor for the DC contacts
Switch-off temperature	90 °C $\pm$ 1 K (equivalent to a Pt 1000 value of 1346.5 $\Omega$ )
Long-term stability	0.06 % (after 1000 hours at 130 °C)
Recommended measured current	1 mA (1 V at 0 °C)
Coefficient	3850 ppm/K
Ambient temperature	-50 °C ... 130 °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

## Cable/line

Cable length	9 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
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 $\varnothing$ )

## Mechanical properties

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## 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 ensued 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

### Connection in accordance with standard

Normative cable length restrictions	NOTE: Cable management may be required. Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1).
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### Standards

Standards/regulations	IEC 62196-3
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## Classifications

### ECLASS

ECLASS-11.0	27144705
ECLASS-13.0	27144705
ECLASS-12.0	27144705

### ETIM

ETIM 9.0	EC002897
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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