

# EV-T1G2CC-DC80A-6,0M6ASBK11 - DC charging cable



1236561

<https://www.phoenixcontact.com/us/products/1236561>

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CHARX connect compact, DC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with direct current (DC), with connected CS contact, with analog temperature sensors, CCS type 1, SAE J1772, IEC 62196-3, 80 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 6 m, black, straight

## 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 1 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	1236561
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBAAM
GTIN	4063151342081
Weight per piece (including packing)	6,627 g
Weight per piece (excluding packing)	6,505 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 compact
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 CS contact with analog temperature sensors
Technology	Combined Charging System
Affixed logo	PHOENIX CONTACT logo
Label	8.9 mm x 28.9 mm (customer logo on request)
Charging standard	CCS type 1
Charging mode	Mode 4 DC level 2

### 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	480 $\Omega$ (Lever actuated) 150 $\Omega$ (Lever not actuated)
Temperature monitoring	2x Pt 1000
Type of charging current	DC
Charging power	80 kW
Charging current	80 A

### Power contact

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	80 A (up to 55 °C)

### Signal contact

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

### 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 $\Omega$ )

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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	68.5 mm
Height	156.6 mm
Depth	239 mm

## Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Mating face)	black (9005)
Color (Protective cap)	black (9005)
Color (Cable)	black (9005)
Material (Vehicle charging connector)	Plastic
Material (Cable outer sheath)	TPE
Material (Contact surface)	Silver
Flammability rating according to UL 94	V0 (Mating face)

## Cable/line

Cable length	6 m ±45 mm
Wiring standards/regulations	UL 62
Cable weight	max. 915 kg/km
Cable type	Class 6
Cable type	straight
Cable structure	3 x 6 AWG + 2 x 3 x 18 AWG
External cable diameter	27 mm ±0.4 mm
Outer sheath, material	TPE
Stripping length of the sheath	140 mm ±10 mm
Cable resistance	≤ 0.0014 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 405 mm (15x diameter)

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

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### Ambient conditions

Degree of protection (Vehicle charging connector)	IP44 (The degree of protection is only ensured in the ready and plugged-in state when both plug-in components are original products from Phoenix Contact or suitable standard-compliant products.)
Ambient temperature (operation)	-30 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

### Standards and regulations

#### Standards

Standards/regulations	SAE J1772
	IEC 62196-3

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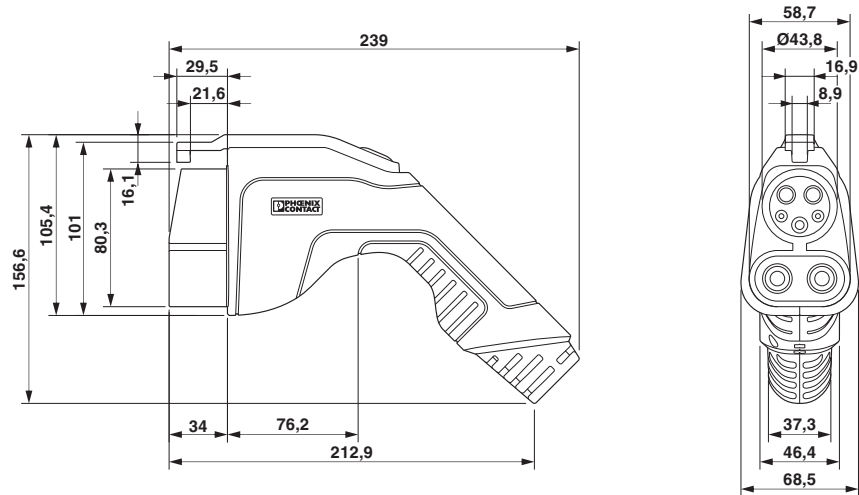


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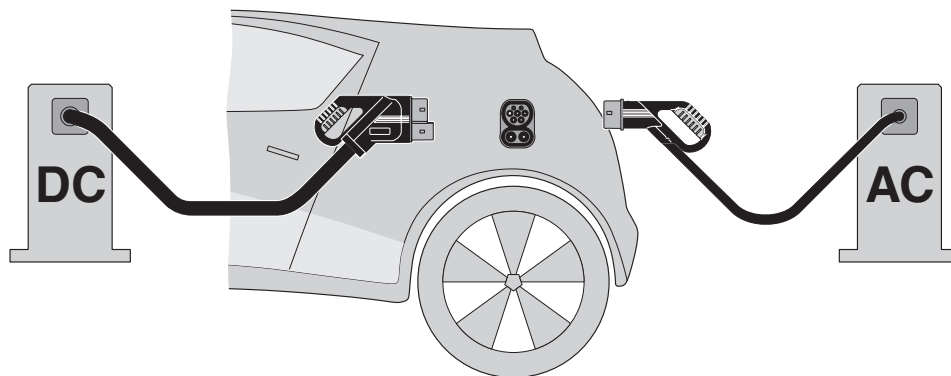
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram



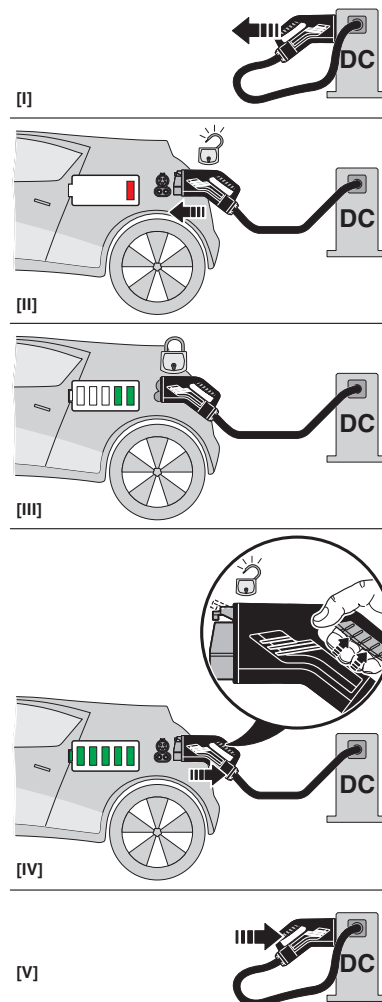
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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## Schematic diagram



## Operating instructions

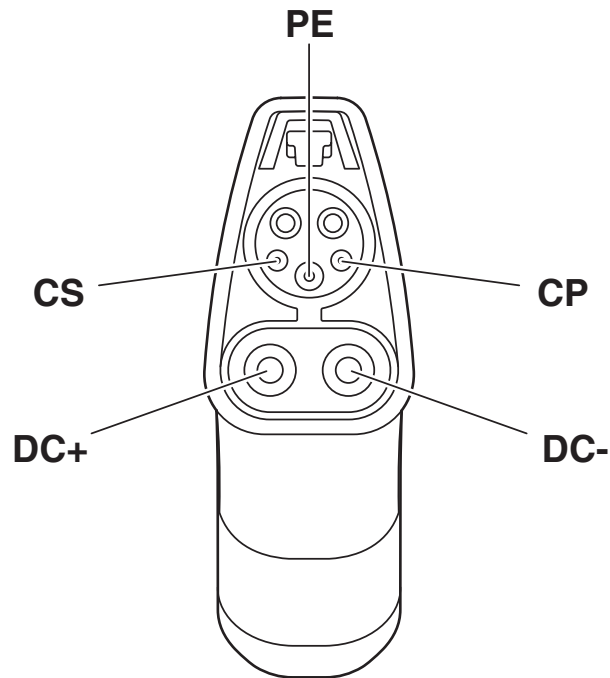
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Schematic diagram



Pin assignment of the Vehicle Connector


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1236561>

	<b>cULus Recognized</b> Approval ID: E473195-20160308			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	1000 V	80 A	- 1	-



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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002897
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### UNSPSC

UNSPSC 21.0	39121500
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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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## Accessories

### EV-T1CCS-PARK - Charging connector holder

1624143

<https://www.phoenixcontact.com/us/products/1624143>



CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), HPC CCS type 1, SAE J1772, Front mounting, housing: black

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### G-INS-M40-L68N-PNES-BK - Cable gland

1424484

<https://www.phoenixcontact.com/us/products/1424484>



Cable gland, material for screw connection: PA, external cable diameter 22 mm .  
.. 32 mm, shielding: no, connecting thread: M40 x 1.5, color: jet black RAL 9005

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## CHARX PS/3AC/920DC/87.5KW - DC power module

1162690

<https://www.phoenixcontact.com/us/products/1162690>



CHARX power basic, Fast charging module for setting up DC charging stations, Rack mounting, input: 3-phase, output: 200 V DC...920 V DC / 125 A. The corresponding system control cabinet CHARX PS-CAB/4x87.5KW (Item No. 1165442) is necessary for operating the DC power module

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## CHARX PS-M2/3AC/1000DC/30KW - DC power module

1232243

<https://www.phoenixcontact.com/us/products/1232243>



CHARX power basic, Fast charging module for setting up DC charging stations, 19" rack mounting, CAN bus, input: 3-phase, output: 150 V DC...1000 V DC / 0 A...100 A

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## CHARX PS-M2/825DC/1000DC/30KW - DC power module

1296467

<https://www.phoenixcontact.com/us/products/1296467>

CHARX power basic, Fast charging module for setting up DC charging stations,  
19" rack mounting, CAN bus, output: 150 V DC...1000 V DC / 0 A...100 A



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