EV-T2M4CC-DC150A-5,0M35ESBK11 - DC charging cable

1095767

https://www.phoenixcontact.com/us/products/1095767

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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, 150 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 5 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 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	1095767
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBAAD
Catalog page	Page 12 (C-7-2019)
GTIN	4055626925967
Weight per piece (including packing)	7,511 g
Weight per piece (excluding packing)	7,402 g
Customs tariff number	85444290
Country of origin	PL

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 Ω (between PE and PP)
	PP signal contact connected to cable
Temperature monitoring	2x Pt 1000
Type of charging current	DC
Charging power	150 kW
Charging current	150 A

Power contact

Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	150 A (up to 40 °C)

Signal contact

Number	2 (CP, PP)
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 ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω)

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
Flammability rating according to UL 94	V0 (Mating face)

Cable/line

Cable length	5 m ±45 mm
Wiring standards/regulations	prEN 50620/DIN EN 50620
Cable weight	max. 1380.00 kg/km
Cable type	Class 6
Cable type	straight
Cable structure	2 x 35 mm² + 1 x 25 mm² + 3 x 2 x 0.75 mm²
External cable diameter	25.90 mm ±0.4 mm
Outer sheath, material	TPE-U
Stripping length of the sheath	140 mm ±10 mm
Stripping length	140 mm ±10 mm
Cable resistance	≤ 0.000554 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 259 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 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)

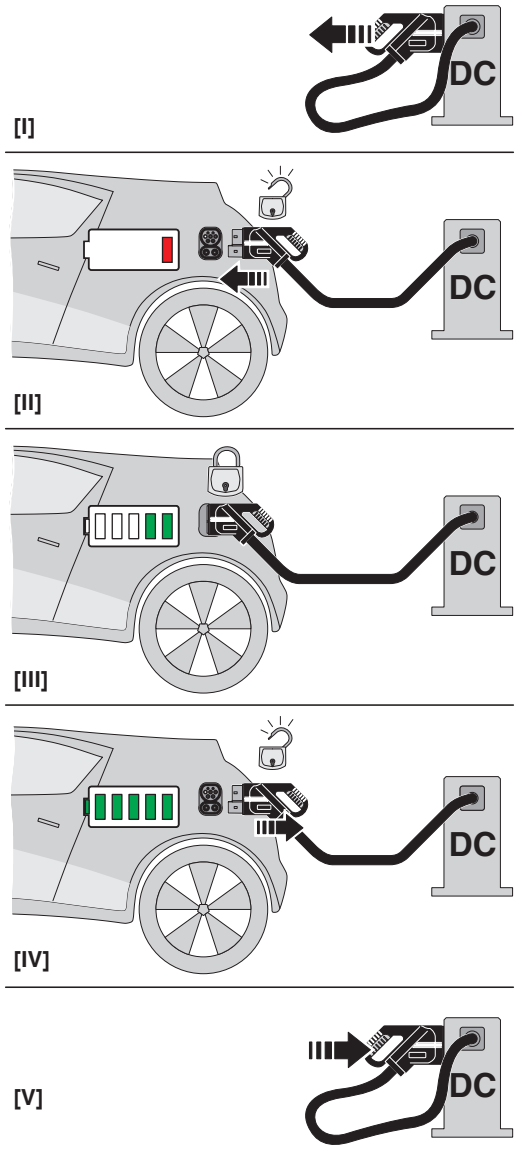
Standards and regulations

Standards

Standards/regulations	IEC 62196-3

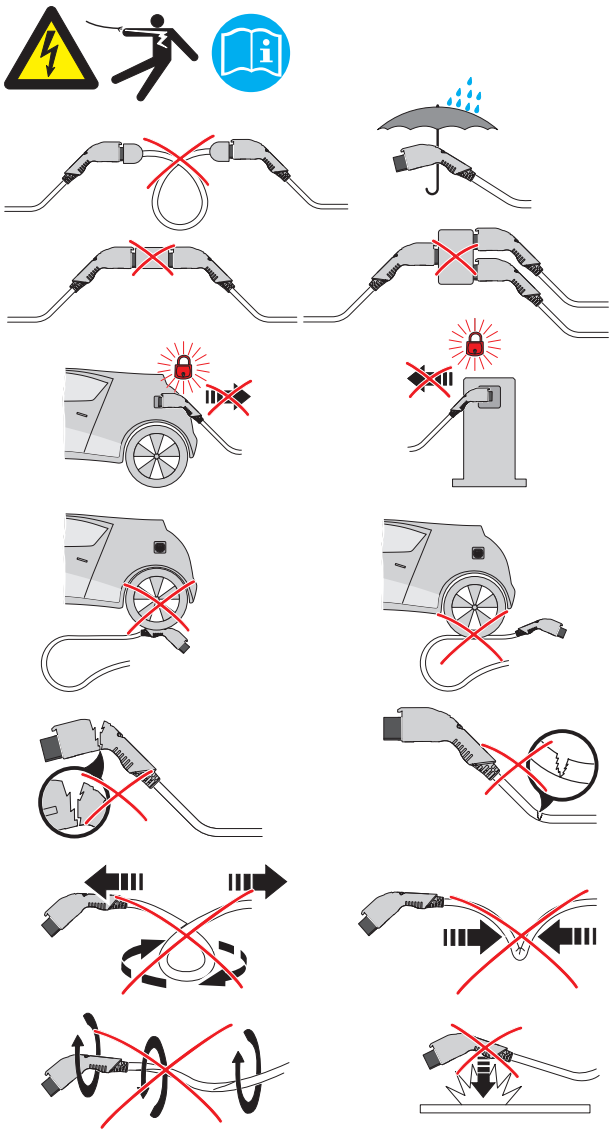
Drawings

Schematic diagram



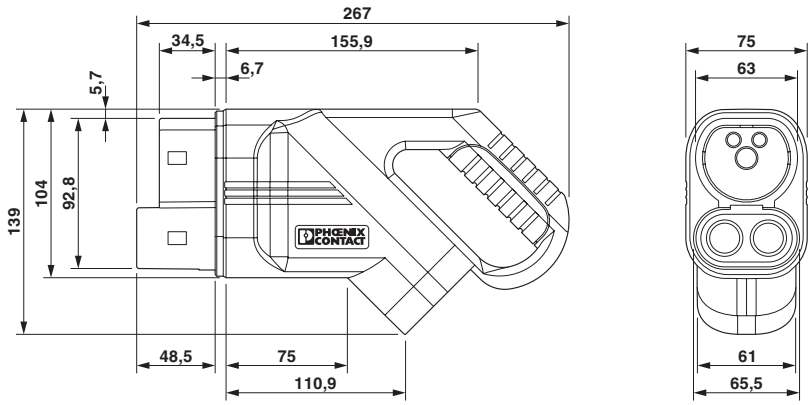
Operating instructions

Schematic diagram



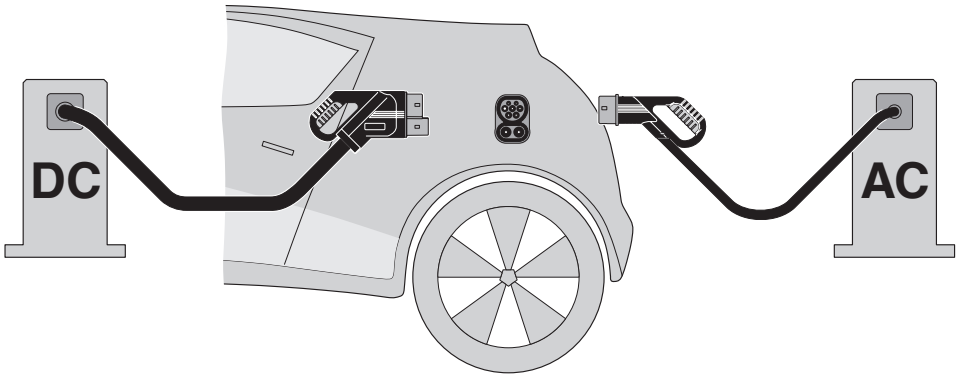
Warnings regarding use

Dimensional drawing



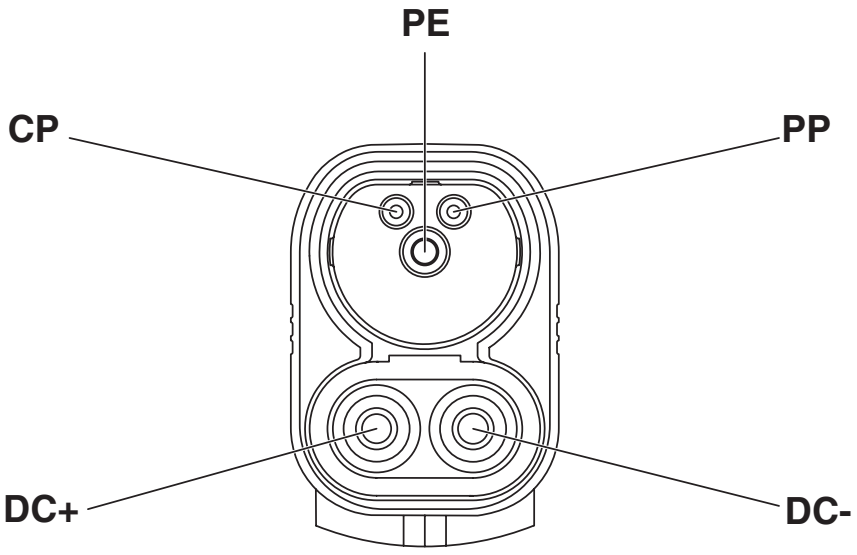
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

Schematic diagram



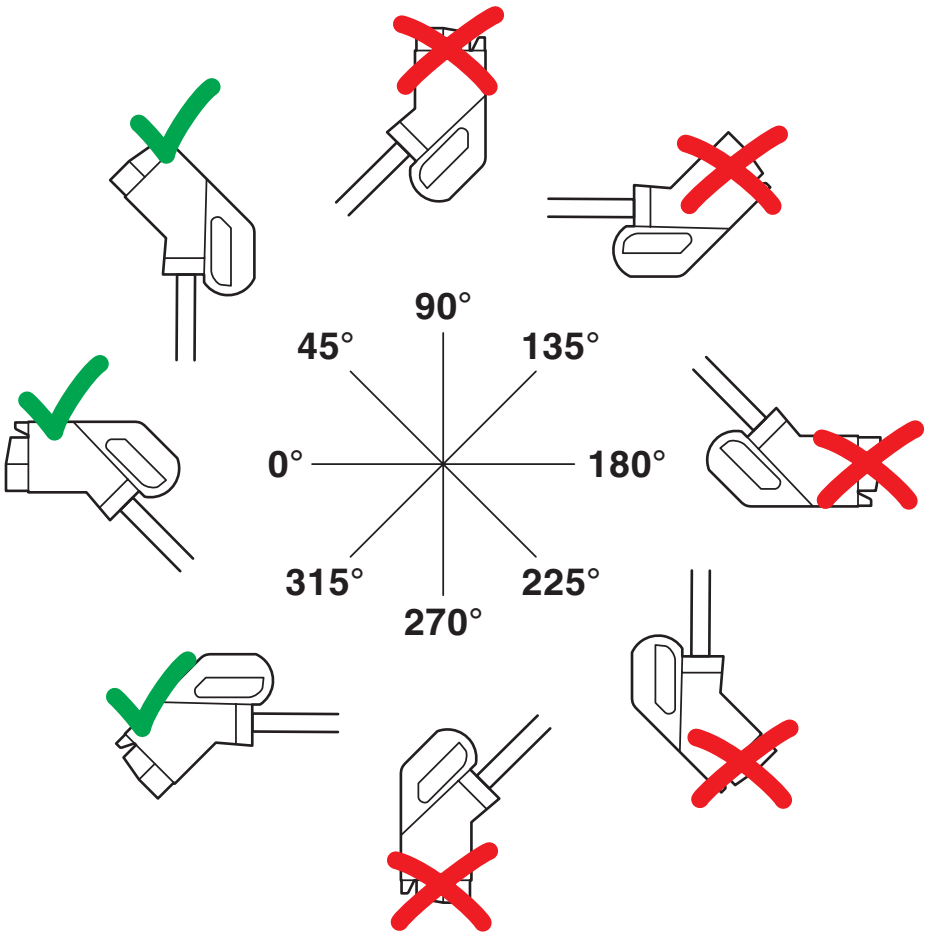
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Schematic diagram



Pin assignment of the Vehicle Connector

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.

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1095767

IECEE CB Scheme
Approval ID: DE1-65588/M1

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	1000 V	150 A	-	-

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002897

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-10
	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)
SCIP	69c78984-b073-430d-a233-6224ca1439fc

Accessories

EV-T2CCS-PARK - Charging connector holder

1624153

https://www.phoenixcontact.com/us/products/1624153

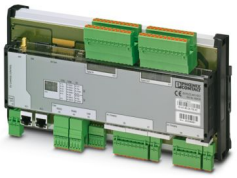


CHARX connect standard, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), CCS type 2, IEC 62196-3, Front mounting, housing: black, Item is not compatible with the HPC CCS type 2 charging cable from Phoenix Contact.

EV-PLCC-AC1-DC1 - DC charging controller

1624130

https://www.phoenixcontact.com/us/products/1624130



Programmable charging controller for DC and AC charging of electric vehicles in accordance with IEC 61851-1,-23, DIN SPEC 70121, and CHAdeMO, with integrated cellular modem

EV-T2CCS-MF-M4X45-BIT - Repair kit

1085796

https://www.phoenixcontact.com/us/products/1085796



CHARX connect standard, Repair kit, Accessories, with replaceable mating face frame, with 5x M4X45 rounded head screws with Torx security drive, with special bit (867/4 IPR TORX PLUS® bit, 20 IPR x 89 mm) for insulated screwdriver, for replacement of the mating face frame of vehicle charging connectors, CCS type 2, IEC 62196-3, housing: black, The vehicle connector housing does not have to be opened in order to replace the mating face frame.

EV-T2CCS-MF-M4X45 - Repair kit

1081734

https://www.phoenixcontact.com/us/products/1081734



CHARX connect standard, Repair kit, Accessories, with replaceable mating face frame, with 5x M4X45 rounded head screws with Torx security drive, for replacement of the mating face frame of vehicle charging connectors, CCS type 2, IEC 62196-3, housing: black, The vehicle connector housing does not have to be opened in order to replace the mating face frame.

EV-LABEL-K - Label

1309761

https://www.phoenixcontact.com/us/products/1309761

CHARX connect, Label, Accessories, for CCS type 2 vehicle charging connector, DIN EN 17186, adhesive



EV-LABEL-L - Label

1309765

https://www.phoenixcontact.com/us/products/1309765

CHARX connect, Label, Accessories, for CCS type 2 vehicle charging connector, DIN EN 17186, adhesive



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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, application: Standard, external cable diameter 22 mm ... 32 mm, shielding: no, connecting thread: M40 x 1.5, color: jet black RAL 9005

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

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, input: 3-phase, output: 30 V DC...1000 V DC / 0 A...100 A

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, output: 30 V DC...1000 V DC / 0 A...100 A

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