

1430338

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CHARX connect professional, CCS type 1, HPC DC charging cable, up to 700 A in Boost mode, 500 A permanent, 1000 V DC, with cooled vehicle charging connector and cooled cable, cable: 6 m, black, straight, with charging connector holder, with replaceable mating face frame, without panel feed-through, PHOENIX CONTACT logo, SAE J1772, IEC 62196-3-1, 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 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
- Ultra-fast HPC charging, with temporary power up to 500 kW
- · 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
- · Additional safety thanks to integrated leakage sensors and a wear indicator in the cable sheath
- · Convenient communication interfaces via CAN bus and digital output
- · Maintenance-friendly replacement of the mating face frame without draining the coolant

Commercial data

Item number	1430338
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBALB
GTIN	4063151797607
Weight per piece (including packing)	14,400 g
Weight per piece (excluding packing)	11,600 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Product properties

Product type	DC charging cable	
Product family	CHARX connect professional	
Application	for charging electric vehicles (EV) with direct current (DC)	
	for installation at charging stations for electromobility (EVSE)	
Туре	HPC DC charging cable	
	with cooled vehicle charging connector and cooled cable	
Design	with charging connector holder	
	with replaceable mating face frame	
	without panel feed-through	
Technology	Combined Charging System	
	High Power Charging	
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	

Cooling system

Cooling	in the vehicle charging connector and in the cable	
Coolant	50% water, 50% glycol (Glysofor N)	
Cooling capacity	600 W (Cable length: 3 m)	
	800 W (Cable length: 4 m)	
	900 W (Cable length: 5 m)	
	1050 W (Cable length: 6 m)	
Cooling hose diameter	1x 11.50 mm Supply hose	
	2x 8.80 mm Return hoses	
Flow rate	2 I/min	
Operating pressure	1.00 bar 2.00 bar	
Relief pressure	2.00 bar	
Maximum permissible pressure	4.00 bar	
Flow-in temperature	15 °C	

Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Coding	480 Ω (Lever actuated)
	150 Ω (Lever not actuated)
Type of charging current	DC
Charging power	500 kW
Charging current	500 A DC
Type of charging current	DC Boost Mode



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Charging power	up to 700 kW (Boost Mode, depending on the ambient conditions. For further information on implementation, please contact your local Phoenix Contact office and see the packing slip in the download area for this item.)
Charging current	up to 700 A DC
Power contact	
Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	500 A
Signal contact	
Rated voltage	30 V AC
Rated current	2 A
Femperature sensors (NTC)	
Sensor type	NTC
Attachment point	2 sensors for the replaceable front DC contacts
	2 sensors for the internal DC power wires
Switch-off temperature	1 sensor on the PCB in the housing 90 °C
/ehicle charging connector Width	69.6 mm
Haight	
Height	192.6 mm
Height Depth	192.6 mm 284.6 mm
Depth	
Depth sterial specifications	284.6 mm
Depth Iterial specifications Color (Housing)	284.6 mm black (9005)
Depth Iterial specifications Color (Housing) Color (Handle area)	284.6 mm black (9005) black (9005)
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Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector)	284.6 mm black (9005) black (9005) black (9005) black (9005) Plastic
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath)	284.6 mm black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath) Material (Contact surface)	284.6 mm black (9005) black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620 Silver
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath) Material (Contact surface) Flammability rating according to UL 94 ble/line	284.6 mm black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620 Silver
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath) Material (Contact surface) Flammability rating according to UL 94 ble/line Cable length	284.6 mm black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620 Silver V0 (Mating face)
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath) Material (Contact surface) Flammability rating according to UL 94 ble/line	black (9005) black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620 Silver V0 (Mating face)
Depth Interial specifications Color (Housing) Color (Handle area) Color (Mating face) Color (Cable) Material (Vehicle charging connector) Material (Cable outer sheath) Material (Contact surface) Flammability rating according to UL 94 ble/line Cable length	284.6 mm black (9005) black (9005) black (9005) black (9005) Plastic EVM-1 in accordance with EN 50620 Silver V0 (Mating face) 6 m ±45 mm Based on UL 62 (File E515623, Vol 1)

5 x 25 mm² + 7 x 0.75 mm²

35.70 mm ±0.4 mm

Cable type
Cable structure

External cable diameter



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Outer sheath, material	TPE-U in accordance with IEC 62893-1
Stripping length of the sheath	250 mm ±5 mm
Stripping length	250 mm ±5 mm
Cable resistance	\leq 0.00078 Ω /m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 357 mm (10x Ø)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000 (based on IEC 62196-1)
Insertion force	< 75 N
Withdrawal force	< 75 N

Environmental and real-life conditions

Ambient conditions

Degree of protection (Vehicle charging connector)	IP54 / Type 3R (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 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

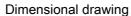
Standards/regulations	SAE J1772
	IEC 62196-3-1

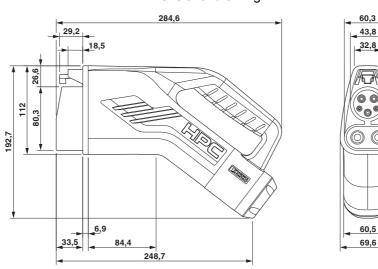


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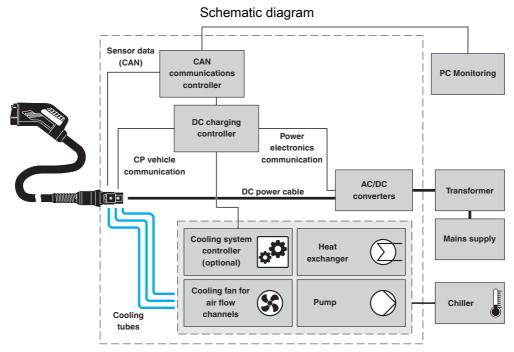
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Drawings





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.

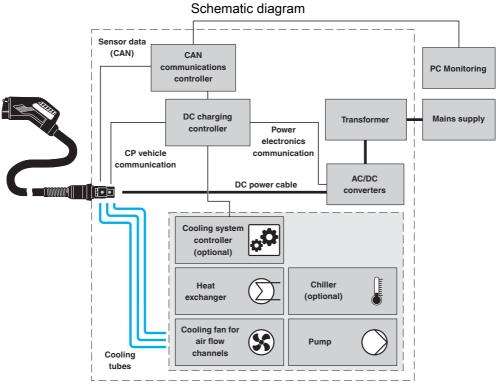


Central system: cooling unit and controller are positioned externally and supply multiple charging stations, each of which is equipped with a heat exchanger. The cooling is done actively using a chiller.



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Standalone, decentralized system: cooling unit and controller are integrated into the charging station. The choice of cooling unit can be passive or active (i.e., with or without chiller).

Schematic diagram

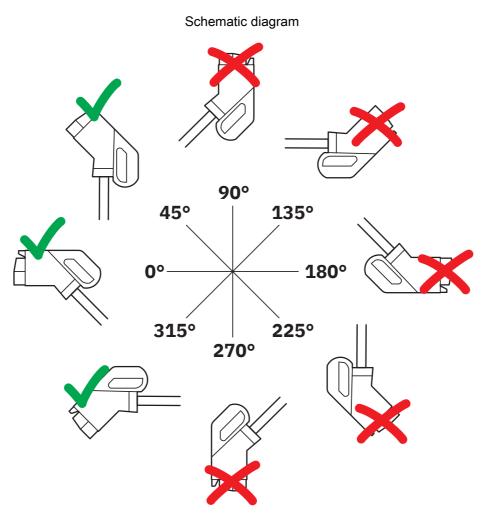
CS CP DC-

Pin assignment of the Vehicle Connector

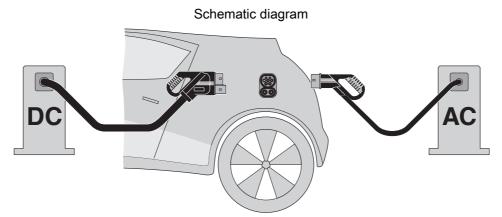


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The resting position must be installed in the charging station such that the user cannot hang up the vehicle connector upside down (90° to 270°). However, positions rotated upward (45°) or downward (315°) are options for a resting position.



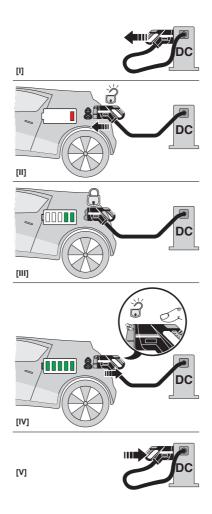
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.



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Schematic diagram

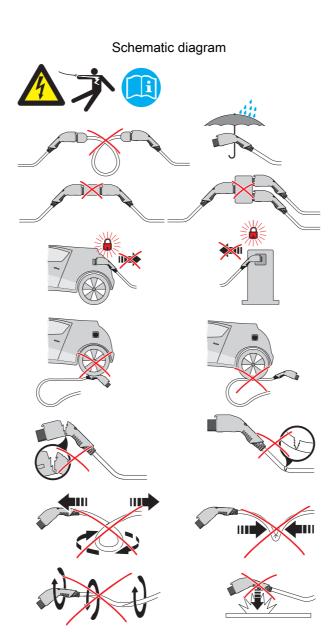


Operating instructions



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Warning signal note



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1430338

c 711 us	cULus Recognize Approval ID: E473195	ed -20220201			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		1000 V	500 A	-	-



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Classifications

ECLASS

	ECLASS-11.0	27144705
	ECLASS-12.0	27144705
	ECLASS-13.0	27144705
ET	IM	
	ETIM 9.0	EC002897

UNSPSC



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Environmental product compliance

EU RoHS

Yes 6(c), 7(c)-I EFUP-10
EFUP-10
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.
Lead(CAS: 7439-92-1)
838a7ced-fa27-48c2-9db9-d7e13fff36d1

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