EV-T2HPCC-DC500A-3,5M50ECBK11 - DC charging cable



1197249

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CHARX connect professional, HPC DC charging cable, with cooled vehicle charging connector and cooled cable, for charging electric vehicles (EV) with direct current (DC), with replaceable mating face frame, with replaceable DC power contacts, without panel feed-through, with digital temperature sensors, CCS type 2, IEC 62196-3-1, 500 A / 1000 V (DC), PHOENIX CONTACT logo, cable: 3.5 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
- · 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	1197249
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBALD
GTIN	4063151256661
Weight per piece (including packing)	11,020 g
Weight per piece (excluding packing)	8,000 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 replaceable mating face frame
	with replaceable DC power contacts
	without panel feed-through
	with digital temperature sensors
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 2
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

Electrical properties

Type of signal transmission	Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121
Coding	1500 Ω (between PE and PP)
Type of charging current	DC
Charging power	500 kW
Charging current	500 A
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 (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.)
Power contact	
Number	3 (PE, DC+, DC-)
Rated voltage	1000 V DC
Rated current	500 A (up to 40 °C)
Signal contact	
Signal contact Number	2 (CP, PP)
5	2 (CP, PP) 30 V AC
Number	
Number Rated voltage	30 V AC
Number Rated voltage Rated current	30 V AC
Number Rated voltage Rated current Femperature sensors (NTC)	30 V AC 2 A
Number Rated voltage Rated current Femperature sensors (NTC) Sensor type	30 V AC 2 A NTC
Number Rated voltage Rated current Femperature sensors (NTC) Sensor type	30 V AC 2 A NTC 2 sensors for the replaceable front DC contacts

Dimensions

Vehicle charging connector

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.
Width	72 mm
Height	181.1 mm
Depth	285.3 mm

Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Mating face)	black (9005)
Color (Cable)	black (9005)



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Material (Vehicle charging connector)	Plastic
Material (Cable outer sheath)	EVM-1 in accordance with EN 50620
Material (Contact surface)	Silver
Flammability rating according to UL 94	V0 (Mating face)

Cable/line

		Cable length
3, Vol 1)	Wiring standards/regulations	
		Cable weight
		Cable type
		Cable structure
		External cable diameter
62893-1		Outer sheath, material
		Stripping length of the sheath
		Stripping length
ower core, at an ambient		Cable resistance
		Bending radius
		Bending radius

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 10000 (based on IEC 62196-1)
Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions	
Degree of protection (Vehicle charging connector)	IP54 (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 62196-3-1	
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cable

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Classifications

ECLASS

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

ETIM

	ETIM 9.0	EC002897	
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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