

# CHARX ET2CP-3AC20-5,0MES00P - AC charging cable



1285624  
<https://www.phoenixcontact.com/gb/products/1285624>

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CHARX connect eco, Type 2, Mobile AC charging cable, 20 A permanent, 480 V AC, with vehicle charging connector and infrastructure charging plug, cable: 5 m, black, straight, with protective cap, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC), The protective cap included in the scope of delivery is plugged onto the vehicle charging connector for which protection is required by standard.

## Product description

Mobile AC charging cable with vehicle charging connector and infrastructure charging plug for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, compatible with type 2 infrastructure charging sockets at charging stations for e-mobility (EVSE)

## Your advantages

- Complete product range
- Convenient handling due to the ergonomic, triple award-winning design
- Available with your logo on request - for consistent branding of your charging station
- Longitudinal water tightness reliably prevents water ingress
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Tested in accordance with automotive standards LV124, LV214, and LV215-2
- Tested in accordance with EV Ready 37 requirements
- Laser-marked mating face in accordance with DIN EN 17186

## Commercial data

Item number	1285624
Packing unit	4 pc
Minimum order quantity	80 pc
Sales key	XWBAEO
Product key	XWBAEO
GTIN	4063151492700
Weight per piece (including packing)	1,644 g
Weight per piece (excluding packing)	1,644 g
Country of origin	PL

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## Technical data

### Notes

General	The protective cap included in the scope of delivery is plugged onto the vehicle charging connector for which protection is required by standard.
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### Product properties

Product type	AC charging cable
Product family	CHARX connect eco
Application	for charging electric vehicles (EV) with alternating current (AC) compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE)
Type	Mobile AC charging cable with vehicle charging connector and infrastructure charging plug
Design	with protective cap
Affixed logo	PHOENIX CONTACT logo
Charging mode	Mode 3, Case B
Charging standard	Type 2
Customer variations	On request

### Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 $\Omega$ (between PE and PP)
Type of charging current	AC 3-phase
Charging power	16.63 kW (3-phase)
Charging current	20 A AC (3-phase)

### Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V
Rated current	20 A

### Signal contact

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

## Dimensions

### Infrastructure charging plug

Width	57 mm
Height	77.5 mm
Depth	193.3 mm

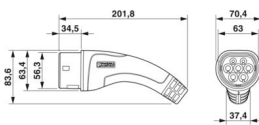
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## Vehicle charging connector

Dimensional drawing	
Width	70.4 mm
Height	82.3 mm
Depth	201.8 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-U
Material (Contact surface)	Silver

## Cable/line

Cable length	5 m
Cable weight	max. 193.00 kg/km
Cable type	straight
Cable structure	5 x 1.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
External cable diameter	11.55 mm ±0.35 mm
Outer sheath, material	TPE-U
Cable resistance	≤ 0.011324 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 86.625 mm (7.5x diameter)

## 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)
Degree of protection (Infrastructure charging plug)	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components

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	are original products from Phoenix Contact or suitable standard-compliant products)
Degree of protection (Protective cap)	IP54
Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	max. 5000 m (above sea level)

## Standards and regulations

### Standards

Standards/regulations	IEC 62196-2
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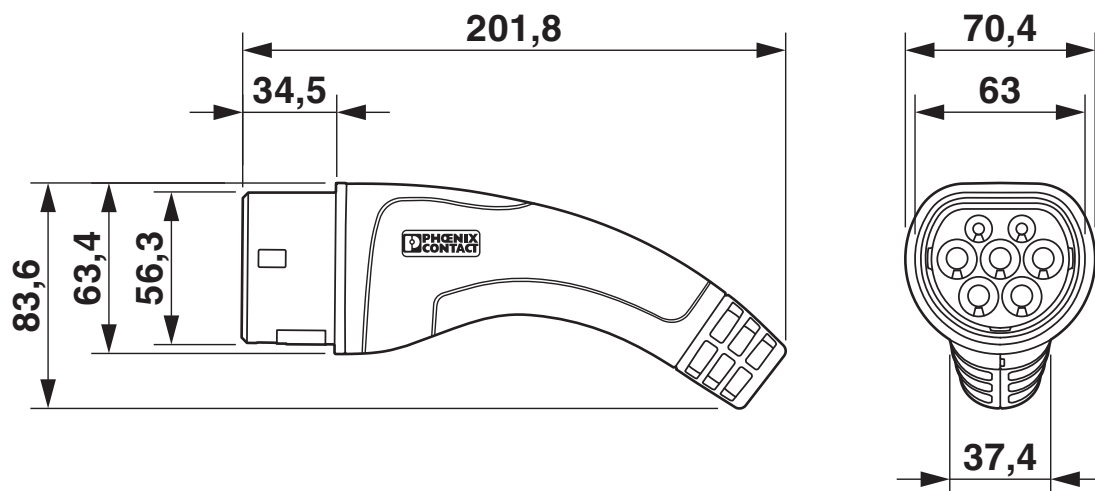


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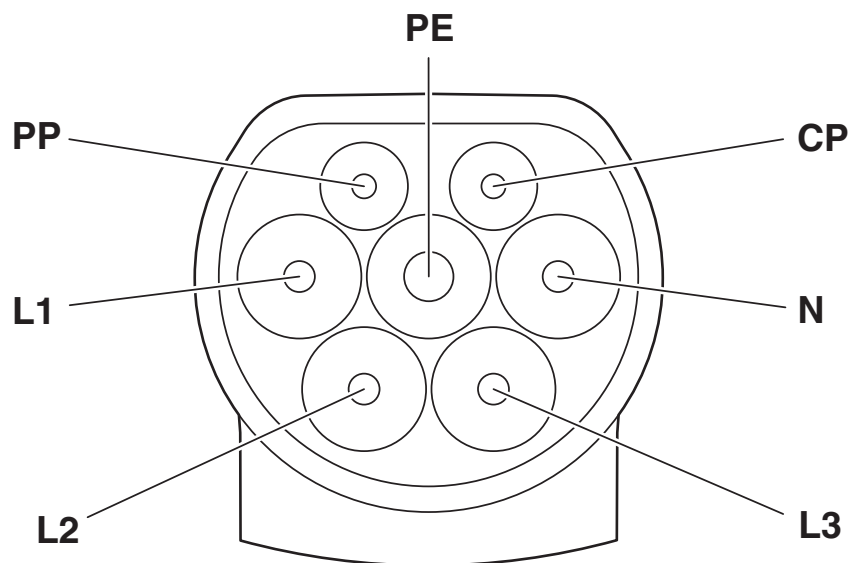
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## Drawings

Dimensional drawing



Connection diagram



Pin assignment of Infrastructure Plug

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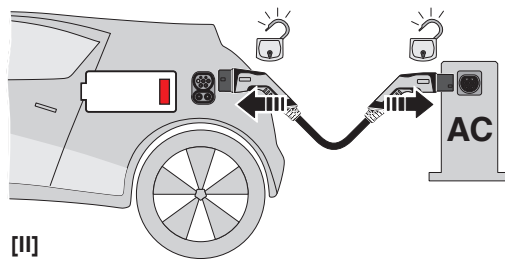
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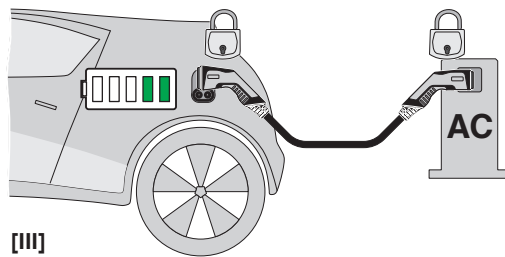
Schematic diagram



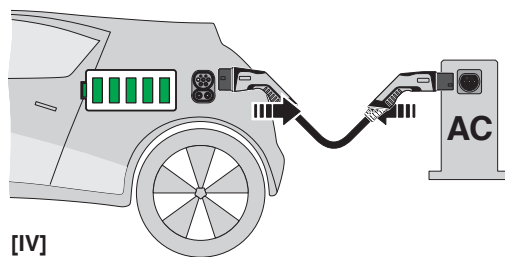
[I]



[II]



[III]



[IV]



[V]

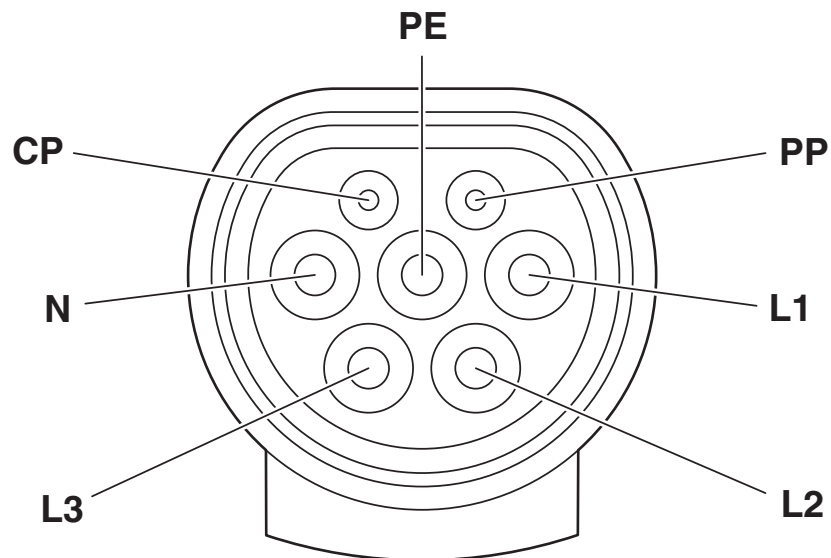
Operating instructions

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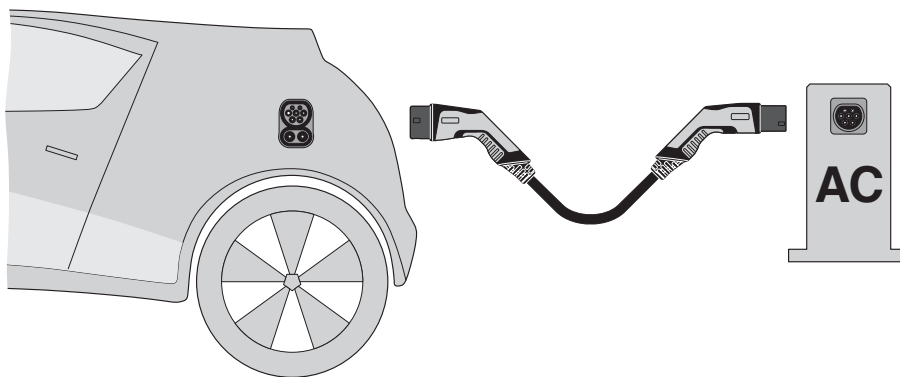
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Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition


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## Approvals

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	<b>IECEE CB Scheme</b>			
	Approval ID: SG PSB-EH-00045			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	480 V	20 A	-	-



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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002897
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## 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	abdc10a7-217e-488a-ba27-d1d561cdcdac

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