

CHARX ET2C-3AC20-6,5MES00P - AC charging cable



1630605

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CHARX connect eco, Type 2, AC charging cable, 20 A permanent, 480 V AC, with vehicle charging connector and open cable end, cable: 6.5 m, black, straight, with protective cap, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC)

Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation 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	1630605
Packing unit	4 pc
Minimum order quantity	120 pc
Sales key	XWBAAO
Product key	XWBAAO
GTIN	4067923149526
Weight per piece (including packing)	1,650 g
Weight per piece (excluding packing)	1,500 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

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	AC charging cable with vehicle charging connector and open cable end
Design	with protective cap
Affixed logo	PHOENIX CONTACT logo
Charging mode	Mode 3, Case C
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 Ω (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

Vehicle charging connector

Dimensional drawing	
Width	70.4 mm
Height	82.3 mm
Depth	201.8 mm

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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	6.5 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 193.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	5 x 1.5 mm ² + 1 x 0.5 mm ²
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 (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

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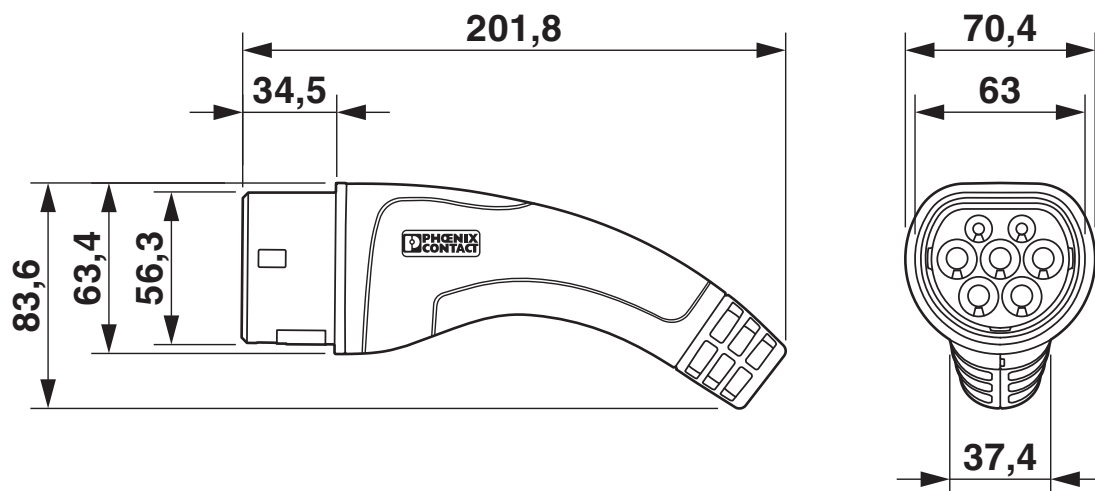
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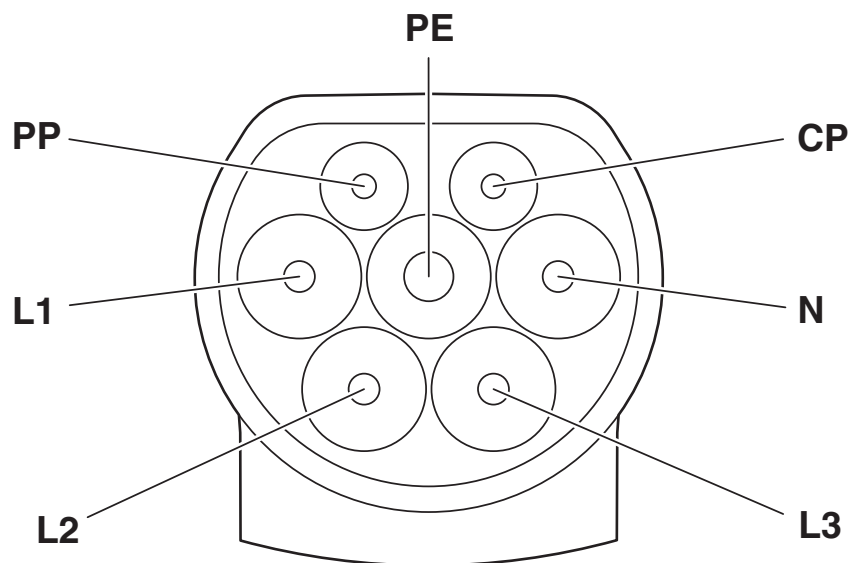
Standards/regulations	IEC 62196-2
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Drawings

Dimensional drawing



Connection diagram



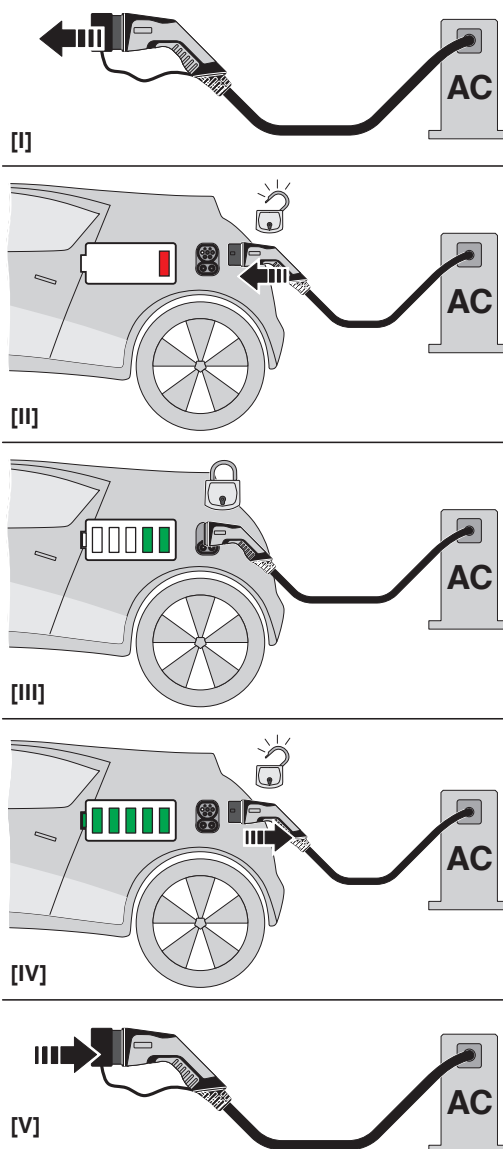
Pin assignment of Infrastructure Plug

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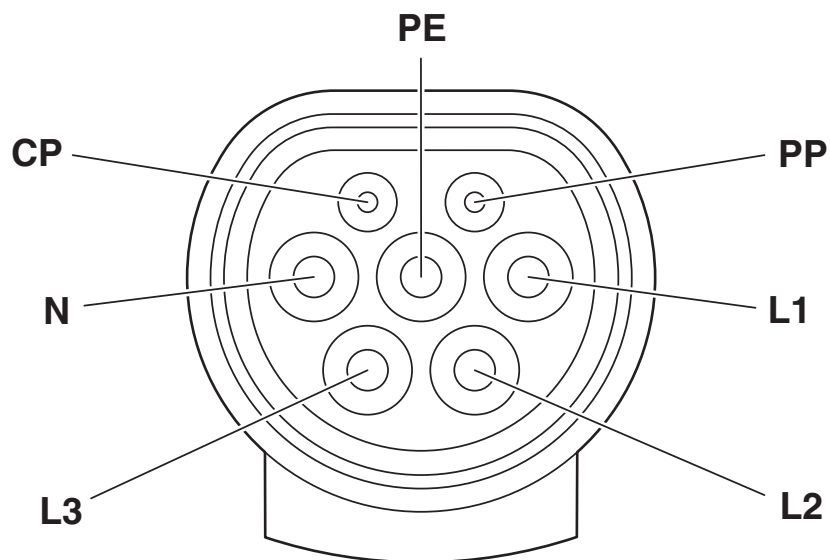
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Schematic diagram



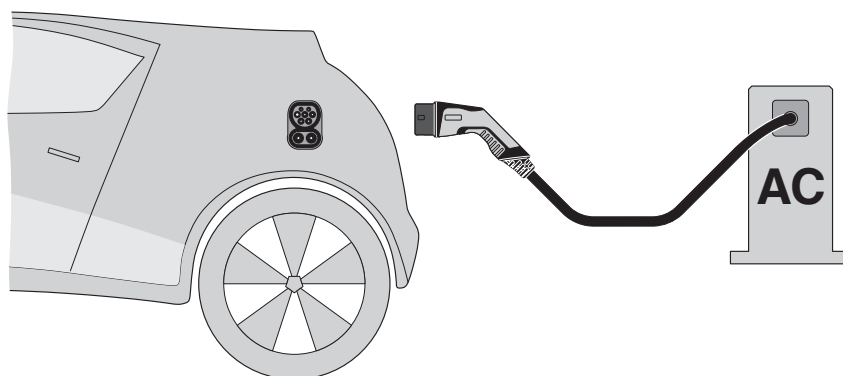
Operating instructions

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

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Approvals

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	IECEE CB Scheme			
	Approval ID: SG PSB-EH-00034			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		480 V	20 A	-
				Cross section mm ²
				-

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Classifications

ECLASS

ECLASS-13.0	27144705
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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	3db64745-5ae2-46b3-89c1-25a0b16e5408

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