EV-T2G3PC-1AC20A-5,0M2,5ESBK01 - AC charging cable

1627982

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CHARX connect comfort, Type 2, Mobile AC charging cable, 20 A permanent, 250 V AC, with vehicle charging connector and infrastructure charging plug, cable: 5 m, black, straight, with protective cap, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets

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	1627982
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBEBA
GTIN	4055626369754
Weight per piece (including packing)	1,630 g
Weight per piece (excluding packing)	1,049 g
Country of origin	PL

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Technical data

Product properties

Product type	AC charging cable
Product family	CHARX connect comfort
Type	Mobile AC charging cable
	with vehicle charging connector and infrastructure charging plug
Design	with protective cap
Charging standard	Type 2
Charging mode	Mode 3, Case B
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

Electrical properties

Charging power and current (AC charging, 1-phase)

Type of charging current	AC single-phase
Charging current	20 A AC (1-phase)
Charging power	5 kW (1-phase)
Charging power rating	3.7 kW (1-phase, 2.5 mm²)
Operating voltage	typ. 230 V AC

Pin assignment (Power contacts)

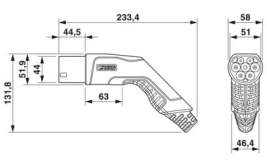
Note on the connection method	Crimp connection, cannot be disconnected
Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	20 A

Pin assignment (Signal contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Type of signal transmission	Pulse width modulation
Number	2 (CP, PP)
Rated voltage	30 V AC
Rated current	2 A
Coding	680 Ω (between PE and PP)

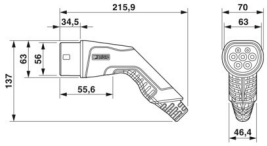
Dimensions

Infrastructure charging plug

Dimensional drawing	

	Infrastructure plug
Width	58 mm
Height	131.8 mm
Depth	233.4 mm

Vehicle charging connector

Dimensional drawing	 Vehicle connector
Width	70 mm
Height	137 mm
Depth	215.9 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 (Infrastructure charging plug)	Plastic
Material (Cable outer sheath)	TPE-U
Material (Contact surface)	Silver
Note	The color appearance and gloss level of the charging cable may vary.

Cable/line

Cable length	5 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 163.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 2.5 mm² + 1 x 0.5 mm²
External cable diameter	10.20 mm ±0.3 mm
Outer sheath, material	TPE-U
Cable resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 153 mm (15x diameter)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

Environmental and real-life conditions

Ambient conditions

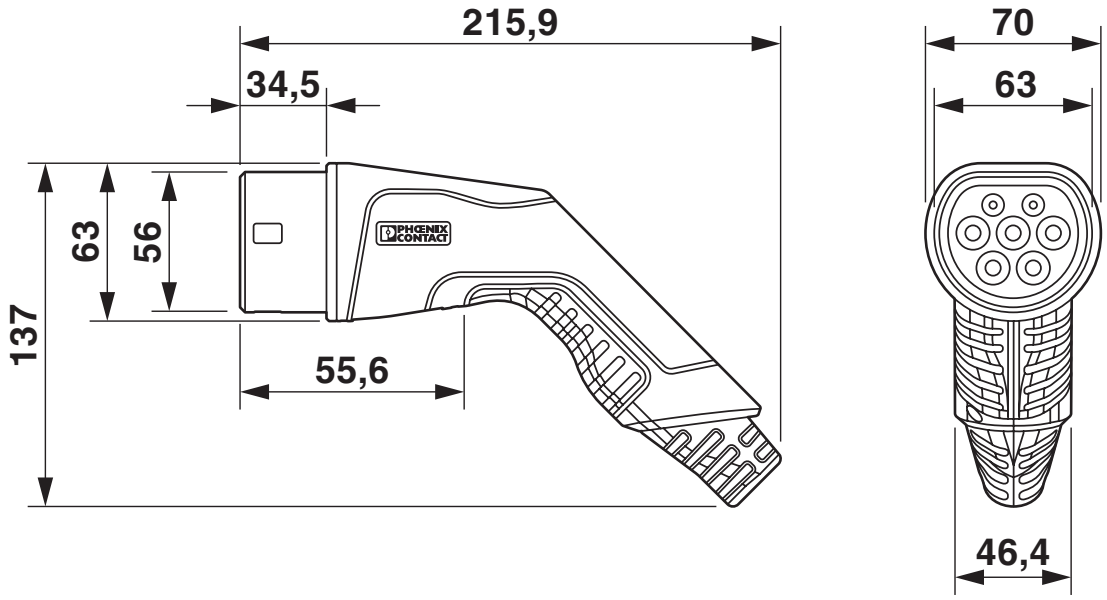
Degree of protection (Vehicle charging inlet)	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
Degree of protection (Infrastructure charging plug)	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components 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	5000 m (above sea level)

Standards and regulations

Standards/specifications	IEC 62196-2
Note	Compliant with AFIR - EU 2025/656

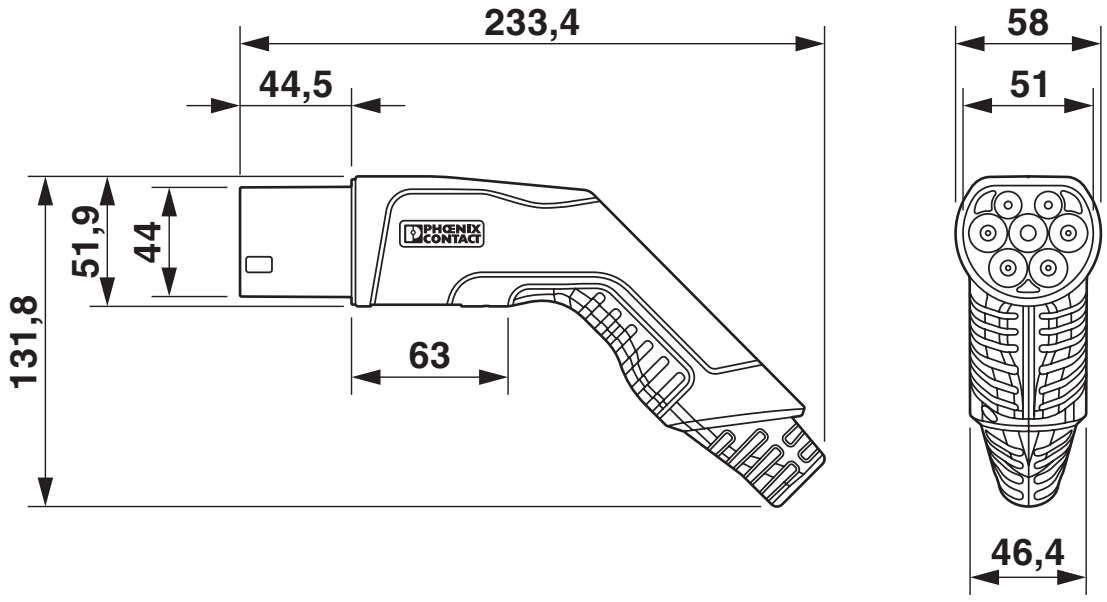
Drawings

Dimensional drawing



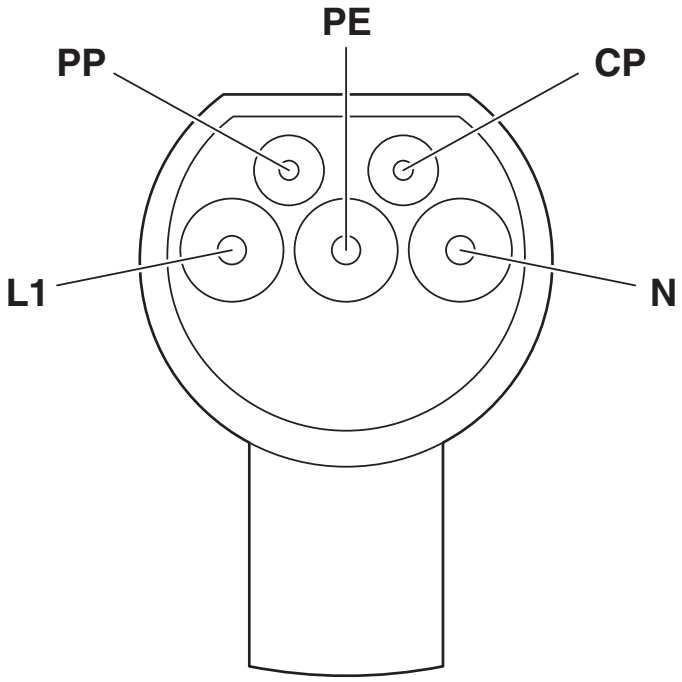
Vehicle connector

Dimensional drawing



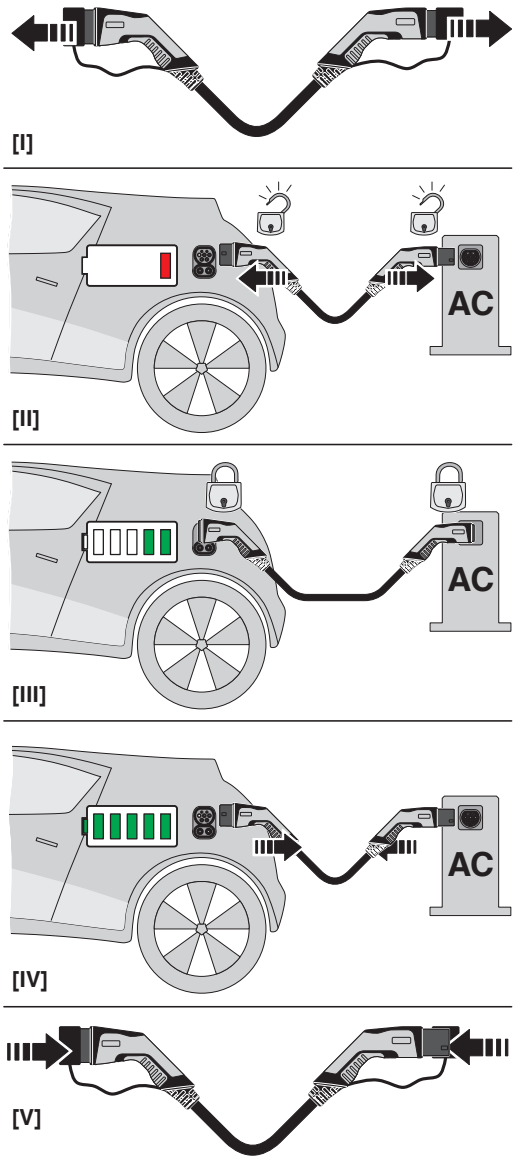
Infrastructure plug

Connection diagram



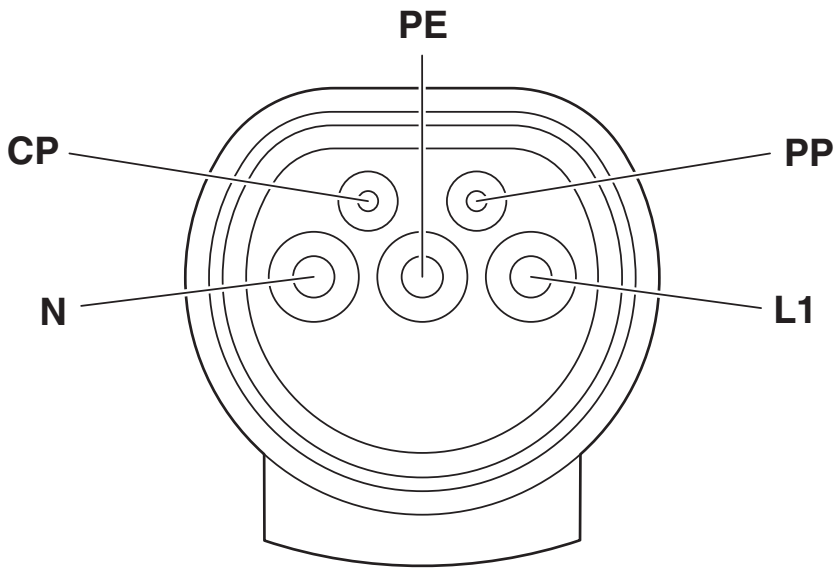
Pin assignment of Infrastructure Plug

Schematic diagram



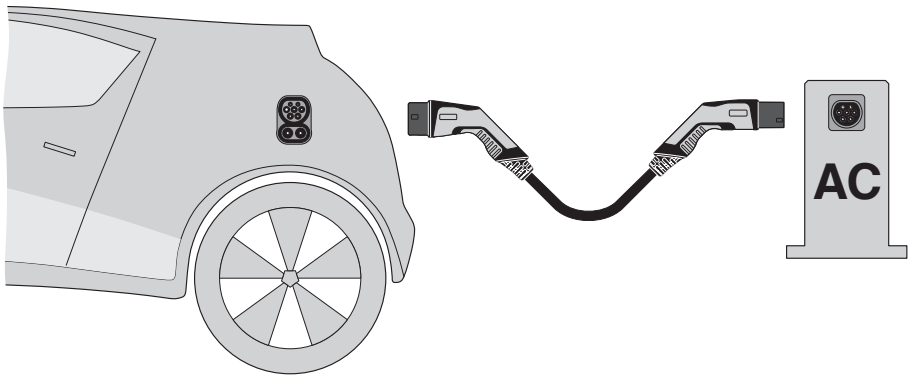
Operating instructions

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1627982

IECEE CB Scheme
Approval ID: DE1-65890/M2

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	250 V	20 A	-	-

Classifications

ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

ETIM

ETIM 10.0	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-50
	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	4c7a9723-b284-403c-9953-772d988fed8f

EF3.1 Climate Change

CO2e kg	33.42 kg CO2e

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