EV-T2G3PC-1AC20A-4,0M2,5EHBK01 - AC charging cable

1627131

https://www.phoenixcontact.com/pl/produkty/1627131

PHŒNIX CONTACT

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CHARX connect comfort, 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, with protective cap, Type 2, IEC 62196-2, housing: black, gray, PHOENIX CONTACT logo, cable: 4 m, black, spiraled

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	1627131
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	XWBAEC
Product Key	XWBAEC
Catalog Page	Page 28 (C-7-2019)
GTIN	4055626299457
Weight per Piece (including packing)	2 kg
Weight per Piece (excluding packing)	1.84 kg
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 comfort
Application	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 electromobility (EVSE)
Type	Mobile AC charging cable
	with vehicle charging connector and infrastructure charging plug
Design	with protective cap
Locking type	No locking option for U-lock
Affixed logo	PHOENIX CONTACT logo
Charging mode	Mode 3, Case B
Charging standard	Type 2

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 single-phase
Charging power	5 kW
Charging current	20 A

Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	20 A

Signal contact

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

Dimensions

Infrastructure charging plug

Dimensional drawing	Infrastructure plug

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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)
	gray (7042)
	black (9005)
	black (9005)
	black (9005)
Material (Vehicle charging connector)	Plastic
	Plastic
	TPE-U
	Silver

Cable/line

Cable length	4 m
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring certifications	VDE
Cable type	Class 5
Cable type	spiraled
Cable structure	3 x 2.5 mm² + 1 x 0.5 mm²
External cable diameter	10.2 mm ±0.3 mm
Outer sheath, material	TPE-U
Block length	0.68 m ±10 %
Coil diameter	45 mm ±10 %
Effective length	max. 4 m ±5 %
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

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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)
	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)
	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

Standards/regulations	IEC 62196-2

Drawings

Connection diagram
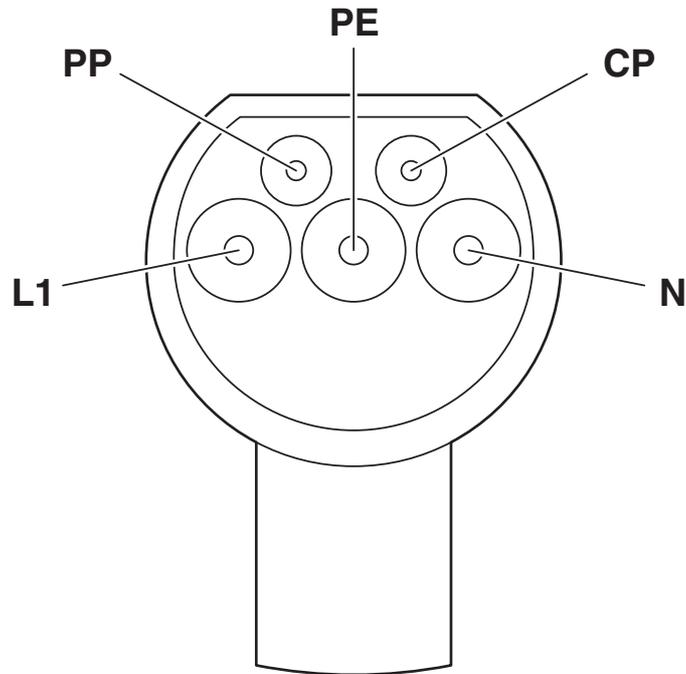
Pin assignment of Infrastructure Plug

Schematic diagram
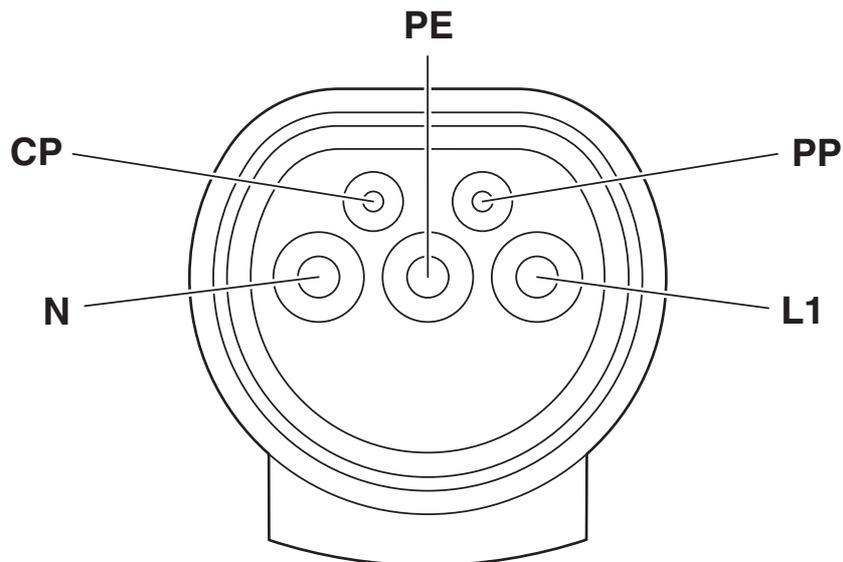
Pin assignment of the Vehicle Connector
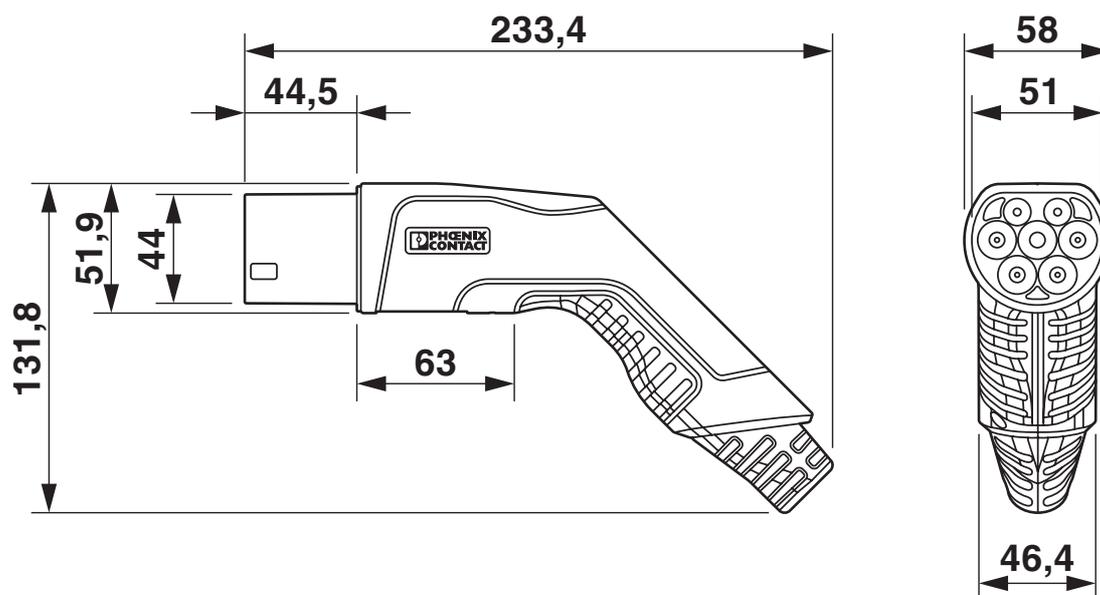
EV-T2G3PC-1AC20A-4,0M2,5EHBK01 - AC charging cable

Schematic diagram

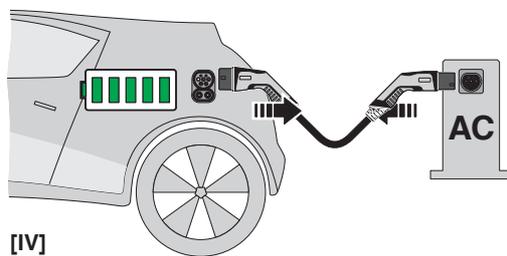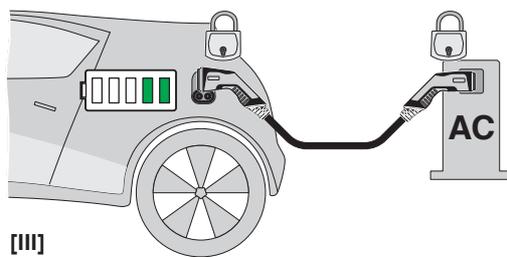Terminology definition

Dimensional drawing

233,4

44,5

51,9

44

131,8

63

58

51

46,4

Infrastructure plug

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Schematic diagram

[I]

[II]

[III]

[IV]

[V]
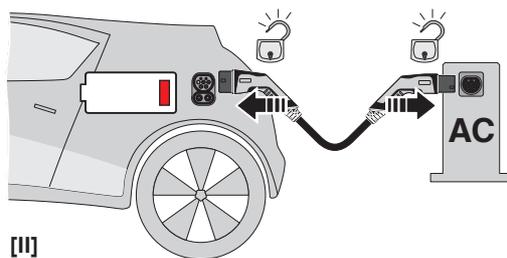
Operating instructions

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Dimensional drawing

Vehicle connector

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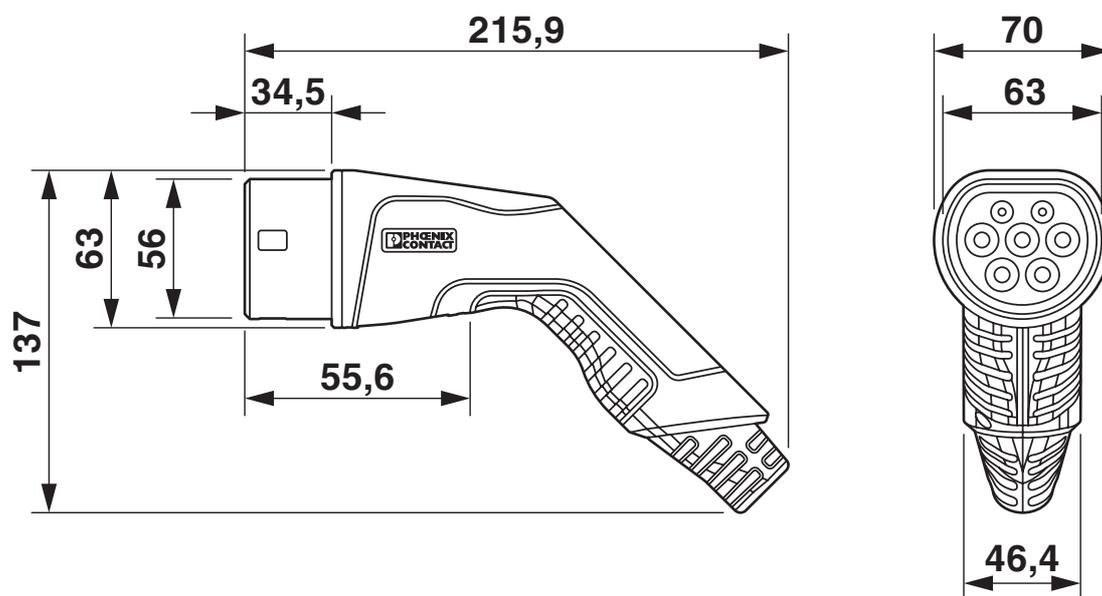
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Approvals

IECEE CB Scheme
Approval ID: DE1-65890

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	20 A	-	-

VDE Zeichengenehmigung
Approval ID: 40045394

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	20 A	-	-

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Classifications

ECLASS

ECLASS-9.0	27144705
ECLASS-10.0.1	27144705
ECLASS-11.0	27144705

ETIM

ETIM 8.0	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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Accessories

EV-T2AC-PARK - Charging connector holder

1624148

https://www.phoenixcontact.com/pl/produkty/1624148

CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting, housing: black, PHOENIX CONTACT logo

EV-T2M3SO12-3P-P-SET - Infrastructure charging socket

1164422

https://www.phoenixcontact.com/pl/produkty/1164422

CHARX connect modular, Infrastructure charging socket, Premium, with protective cover, with temperature sensors, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

EV-T2G3PC-1AC20A-4,0M2,5EHBK01 - AC charging cable

1627131

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EV-T2M3SO12-4P-P-SET - Infrastructure charging socket

1164423

https://www.phoenixcontact.com/pl/produkty/1164423

CHARX connect modular, Infrastructure charging socket, Premium, with protective cover, with temperature sensors, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

EV-T2M3SO12-3P-BL-SET - Infrastructure charging socket

1268358

https://www.phoenixcontact.com/pl/produkty/1268358

CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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EV-T2M3SO12-4P-BL-SET - Infrastructure charging socket

1268355

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CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, with LED status indicator within the protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

EV-T2M3SO12-3P-B-SET - Infrastructure charging socket

1164420

https://www.phoenixcontact.com/pl/produkty/1164420

CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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1627131

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EV-T2M3SO12-4P-B-SET - Infrastructure charging socket

1164417

https://www.phoenixcontact.com/pl/produkty/1164417

CHARX connect modular, Infrastructure charging socket, Basic, with protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

EV-LABEL-C - Label

1309766

https://www.phoenixcontact.com/pl/produkty/1309766

CHARX connect, Label, Accessories, for AC type 2 vehicle charging connector, DIN EN 17186

EV-T2G3PC-1AC20A-4,0M2,5EHBK01 - AC charging cable

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EV-LABEL-C-SO - Label

1315521

https://www.phoenixcontact.com/pl/produkty/1315521

CHARX connect, Label, Accessories, for AC type 2 infrastructure charging plug, DIN EN 17186

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