

EV-T2G3C-3AC20A-4,0M2,5EHBK01 - AC charging cable



1627128

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CHARX connect comfort, Type 2, AC charging cable, 20 A permanent, 480 V AC, with vehicle charging connector and open cable end, cable: 4 m, black, spiraled, 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

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	1627128
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBDBC
GTIN	4055626299433
Weight per piece (including packing)	2,251 g
Weight per piece (excluding packing)	2,140 g
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 for installation at charging stations for electromobility (EVSE)
Design	with protective cap
Charging standard	Type 2
Charging mode	Mode 3, Case C
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

Electrical properties

Charging power and current (AC charging (3-phase))

Type of charging current	AC 3-phase
Charging current	20 A AC (3-phase)
Charging power	16.63 kW (3-phase)
Rated voltage	480 V

Pin assignment (Leistungskontakte)

Note on the connection method	Crimp connection, cannot be disconnected
Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V AC
Rated current	20 A

Pin assignment (Signalkontakte)

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

Vehicle charging connector

Width	70 mm
Height	137 mm
Depth	215.9 mm

Material specifications

Color (Housing)	black (9005)
Color (Handle area)	gray (7042)

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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
Note	The color appearance and gloss level of the charging cable may vary.

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	5 x 2.5 mm ² + 1 x 0.5 mm ²
External cable diameter	12.80 mm ±0.4 mm
Outer sheath, material	TPE-U
Stripping length of the sheath	70 mm ±5 mm
Block length	0.63 m ±10 %
Coil diameter	60 mm ±10 %
Effective length	max. 4 m ±5 %
Stripping length	70 mm ±5 mm
Cable resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 192 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 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	5000 m (above sea level)

Standards and regulations

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Standards

Standards/regulations	IEC 62196-2
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Drawings

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.

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Schematic diagram



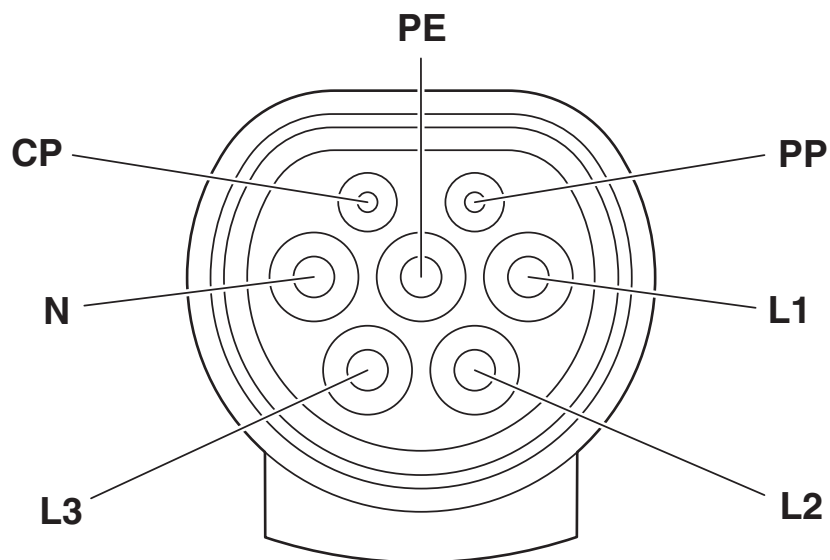
Operating instructions

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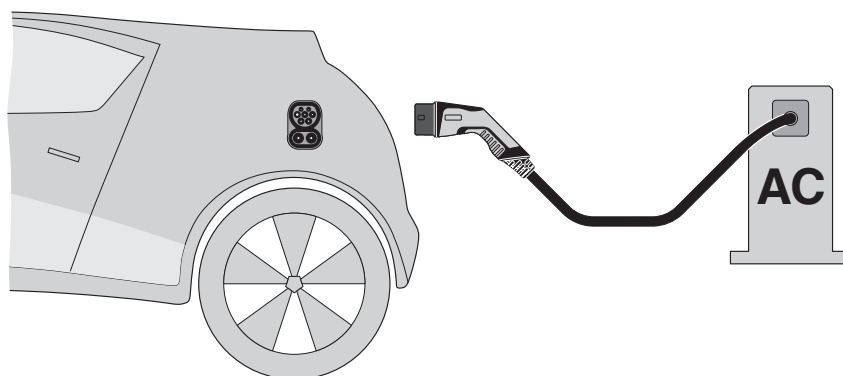
<https://www.phoenixcontact.com/us/products/1627128>

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1627128>

	IECEE CB Scheme Approval ID: DE1-65898/M1			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	keine			
	480 V	20 A	-	-

	VDE approval of drawings Approval ID: 40045387			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	keine			
	480 V	20 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

ETIM

ETIM 9.0	EC002897
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UNSPSC

UNSPSC 21.0	39121500
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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-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	4b71d596-3f93-48f4-ad9b-d8af3e1cc362

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