

EV-T2G3PC-3AC20A-4,0M2,5EHBK01 - AC charging cable



1627135

<https://www.phoenixcontact.com/us/products/1627135>

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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, 20 A / 480 V (AC), 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	1627135
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBAEC
Catalog page	Page 29 (C-7-2019)
GTIN	4055626299471
Weight per piece (including packing)	2,653 g
Weight per piece (excluding packing)	2,498 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
	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

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
Charging current	20 A

Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 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	 Technical drawing of the Infrastructure plug. The side view shows a total length of 233.4 mm, a mounting bracket width of 44.5 mm, a main body width of 44 mm, a base width of 63 mm, and a total height of 131.6 mm. The front view shows a total width of 58 mm, a mounting bracket height of 51 mm, and a base width of 46.4 mm.
Width	58 mm

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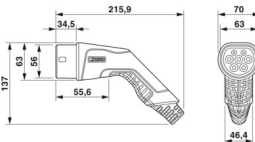


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Height	131.8 mm
Depth	215.9 mm

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

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
Block length	0.63 m ±10 %
Coil diameter	60 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. 192 mm (15x diameter)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
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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 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

Standards/regulations	IEC 62196-2
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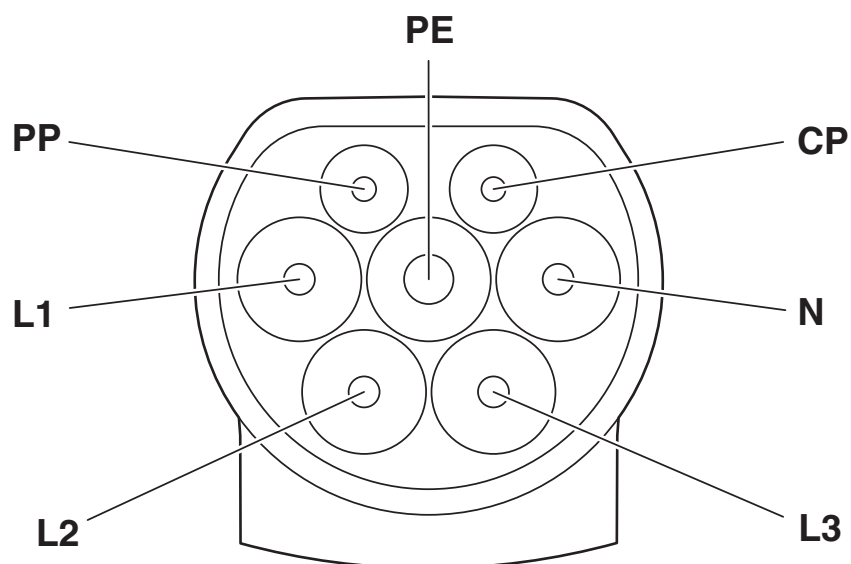


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Drawings

Connection diagram



Pin assignment of Infrastructure Plug

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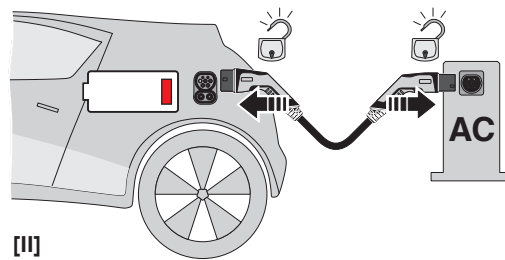
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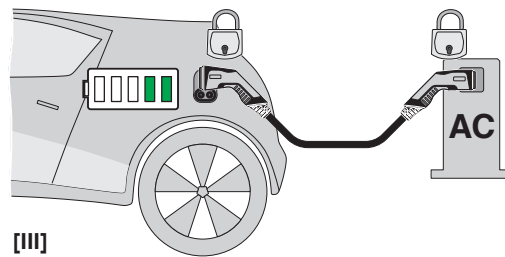
Schematic diagram



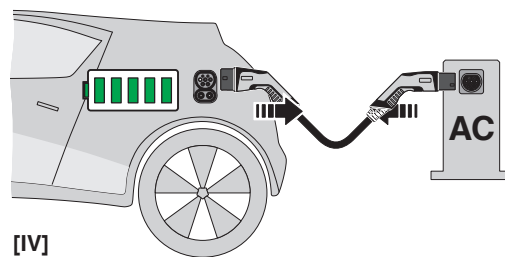
[I]



[II]



[III]



[IV]



[V]

Operating instructions

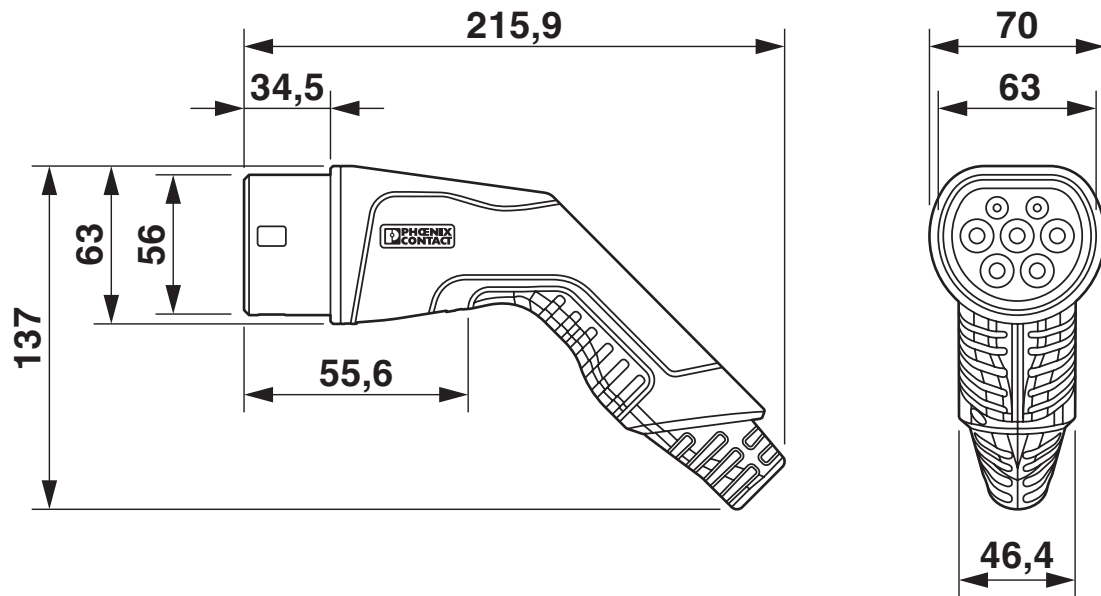
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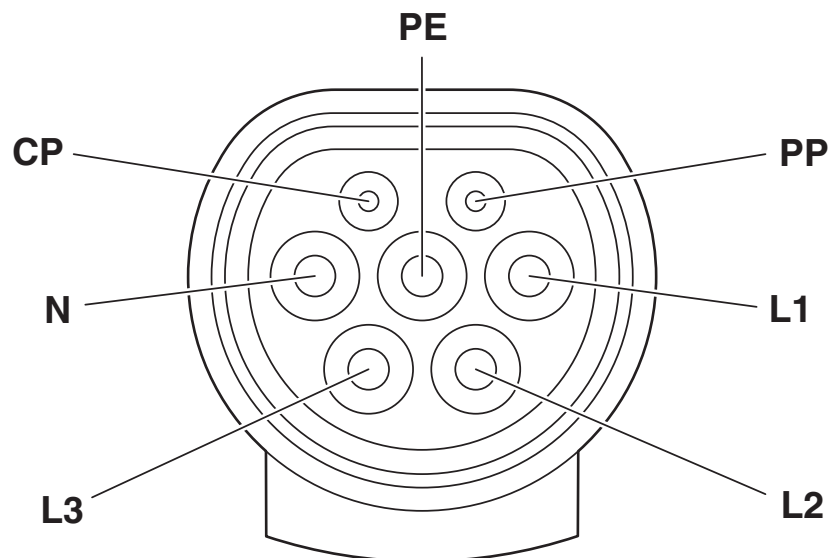
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Dimensional drawing



Vehicle connector

Schematic diagram



Pin assignment of the Vehicle Connector

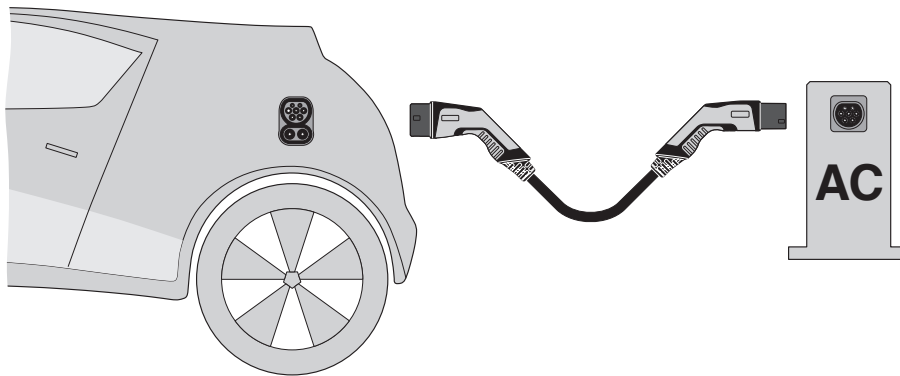
EV-T2G3PC-3AC20A-4,0M2,5EHBK01 - AC charging cable



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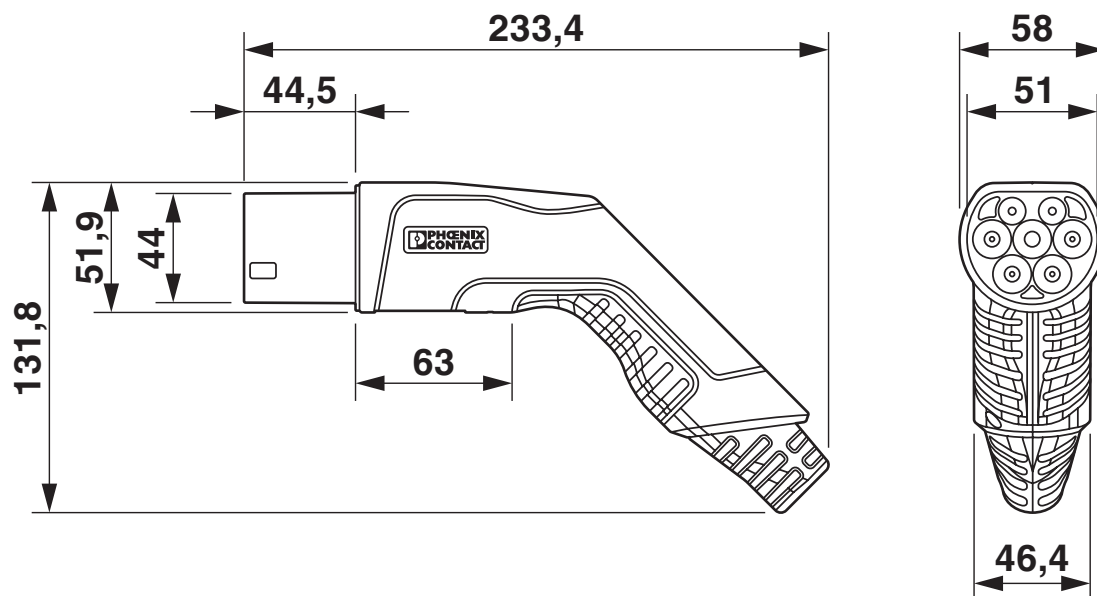
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Schematic diagram



Terminology definition

Dimensional drawing



Infrastructure plug

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1627135>

	IECEE CB Scheme Approval ID: DE1-65890			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	480 V	20 A	-	-

	VDE Zeichengenehmigung Approval ID: 40045394			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	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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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-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)

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Accessories

EV-T2AC-PARK - Charging connector holder

1624148

<https://www.phoenixcontact.com/us/products/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/us/products/1164422>



CHARX connect modular, Infrastructure charging socket, square, Premium, Set, with square protective cover, with temperature sensors, with LED (common cathode connection), 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-P-SET - Infrastructure charging socket

1164423

<https://www.phoenixcontact.com/us/products/1164423>



CHARX connect modular, Infrastructure charging socket, square, Premium, Set, with square protective cover, with temperature sensors, with LED (common cathode connection), 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/us/products/1268358>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, with LED (common cathode connection), 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, square, Basic, Set, with square protective cover, with LED (common cathode connection), 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

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CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square 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-B-SET - Infrastructure charging socket

1164417

<https://www.phoenixcontact.com/us/products/1164417>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square 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

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

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EV-LABEL-C-SO - Label

1315521

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



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