

# EV-T2G3PC-3AC20A-7,0M2,5ESYE11 - AC charging cable



1247580

<https://www.phoenixcontact.com/in/products/1247580>

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CHARX connect comfort, Type 2, Mobile AC charging cable, 20 A Permanent, 480 V AC, with vehicle charging connector and infrastructure charging plug, cable: 7 m, yellow, straight, with protective cap, 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	1247580
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	XWBAEC
GTIN	4063151350512
Weight per piece (including packing)	2,635 g
Weight per piece (excluding packing)	2,600 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 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
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 $\Omega$ (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 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	<p>Infrastructure plug</p>
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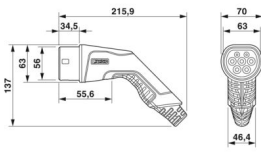


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Width	58 mm
Height	131.8 mm
Depth	233.4 mm

## Vehicle charging connector

Dimensional drawing	
	Vehicle connector
Width	70 mm
Height	137 mm
Depth	215.9 mm

## Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Mating face)	black (9005)
Color (Protective cap)	black (9005)
Color (Cable)	yellow (1018)
Material (Vehicle charging connector)	Plastic
Material (Cable outer sheath)	TPE-U
Material (Infrastructure charging plug)	Plastic
Material (Contact surface)	Silver

## Cable/line

Cable length	7 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 238.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	5 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
External cable diameter	12.80 mm ±0.4 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. 192 mm (15x diameter)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N

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Withdrawal force	< 100 N
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## 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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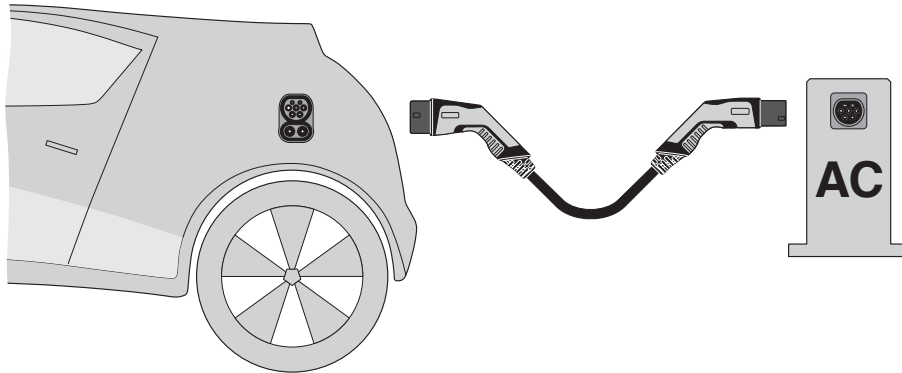


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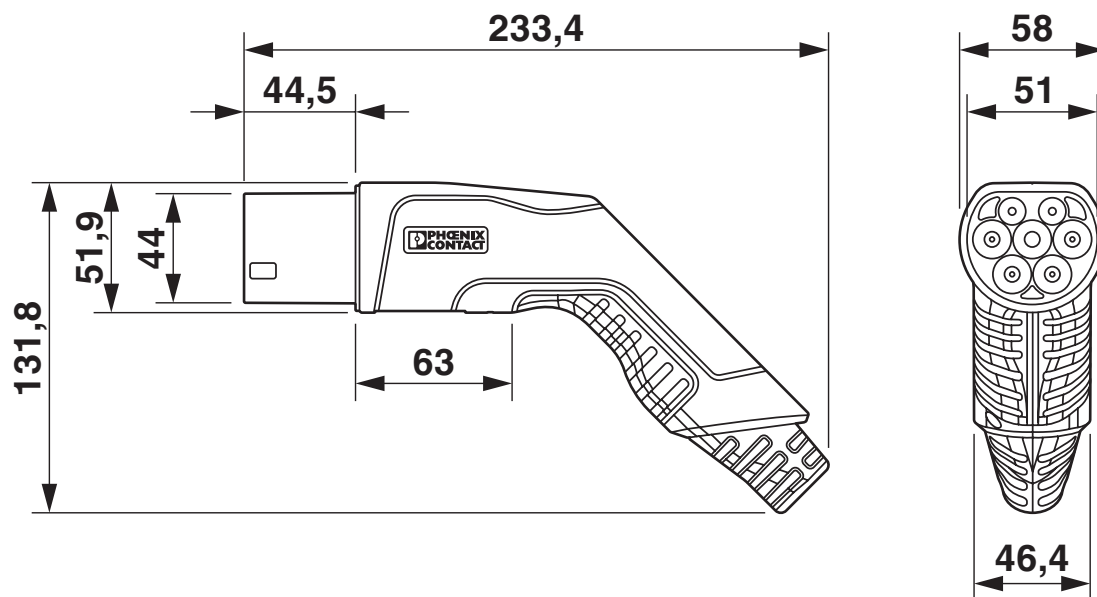
## Drawings

Schematic diagram



## Terminology definition

Dimensional drawing



## Infrastructure plug

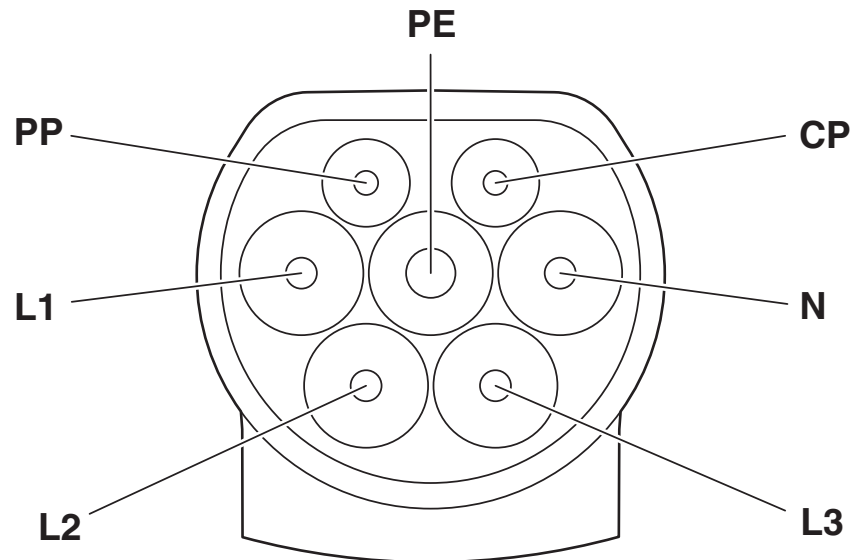
# EV-T2G3PC-3AC20A-7,0M2,5ESYE11 - AC charging cable



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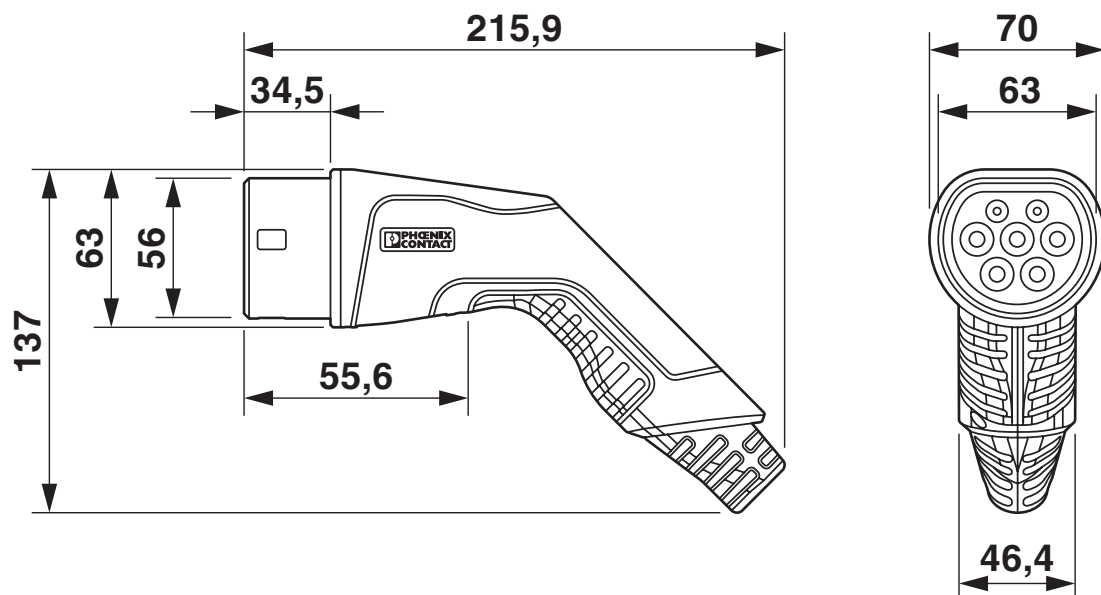
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Connection diagram



Pin assignment of Infrastructure Plug

Dimensional drawing



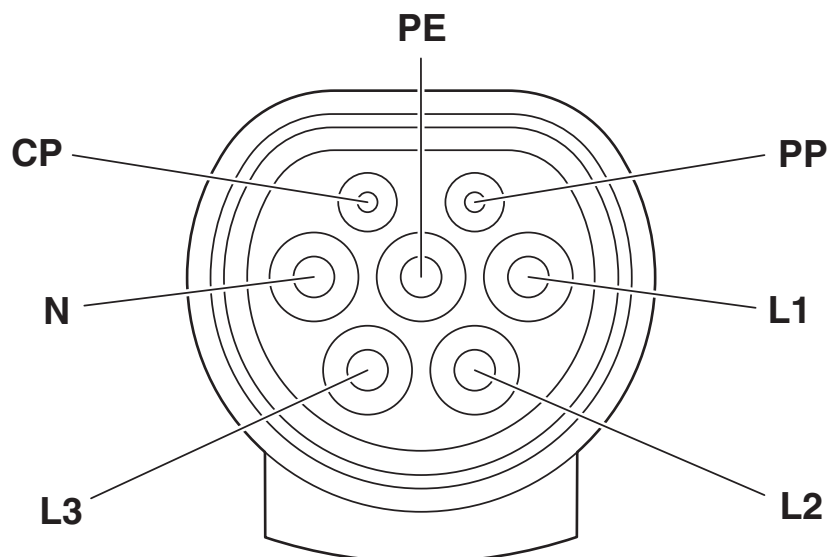
Vehicle connector

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Schematic diagram



Pin assignment of the Vehicle Connector

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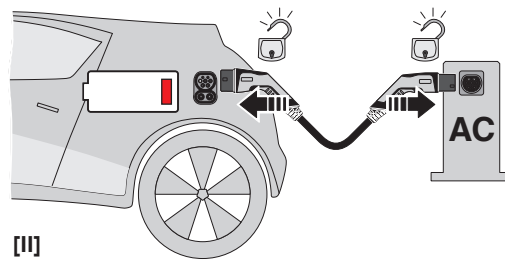
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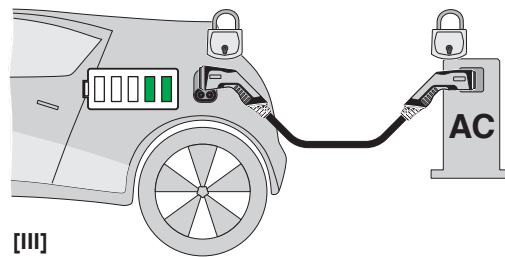
Schematic diagram



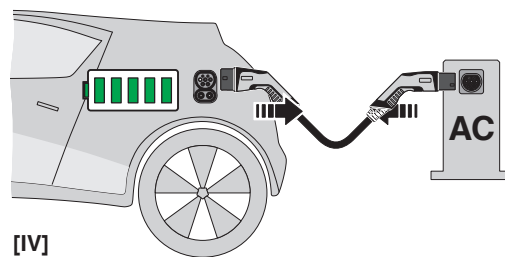
[I]



[II]



[III]



[IV]



[V]

Operating instructions



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1247580>

	IECEE CB Scheme			
	Approval ID: DE1-65890			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	480 V	20 A	-	-

	VDE approval of drawings			
	Approval ID: 40045394			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	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)
SCIP	41031be7-ba58-4b86-913e-ac14919af989

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## Accessories

### EV-T2AC-PARK - Charging connector holder

1624148

<https://www.phoenixcontact.com/in/products/1624148>



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

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

1164422

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



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

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

1164423

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



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

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

1268358

<https://www.phoenixcontact.com/in/products/1268358>



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

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

1268355

<https://www.phoenixcontact.com/in/products/1268355>



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

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

1164420

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

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

1164417

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



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

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## 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

<https://www.phoenixcontact.com/in/products/1315521>

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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