

1623908  
<https://www.phoenixcontact.com/us/products/1623908>

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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 1 vehicle charging inlets, with protective cap, with locking option for padlock, Type 1, Type 2, IEC 62196-2, SAE J1772, 20 A / 250 V (AC), housing: black, gray, PHOENIX CONTACT logo, cable: 4 m, black, straight

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 1 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	1623908
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBAEE
GTIN	4055626230887
Weight per piece (including packing)	1,592 g
Weight per piece (excluding packing)	1,500 g
Customs tariff number	85444290
Country of origin	PL

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



1623908

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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 1 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 with locking option for padlock
Affixed logo	PHOENIX CONTACT logo

### Data management status

Article revision	10
Charging mode	Mode 3, Case B
Charging standard	Type 1 Type 2

### Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Coding	480 $\Omega$ (Lever actuated) 150 $\Omega$ (Lever not actuated)
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, CS)
Rated voltage	30 V AC
Rated current	2 A

## Dimensions

### Infrastructure charging plug

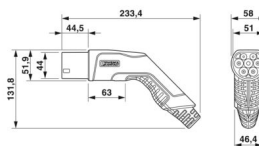
# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



1623908

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## Dimensional drawing



Infrastructure plug

Width	58 mm
Height	131.8 mm
Depth	233.4 mm

## Vehicle charging connector

Width	58 mm
Height	151.1 mm
Depth	236.1 mm

## Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Actuating element)	silver grey (7001)
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 weight	max. 163.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
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
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Insertion force	< 75 N
Withdrawal force	< 75 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)	-30 °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
	SAE J1772

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable

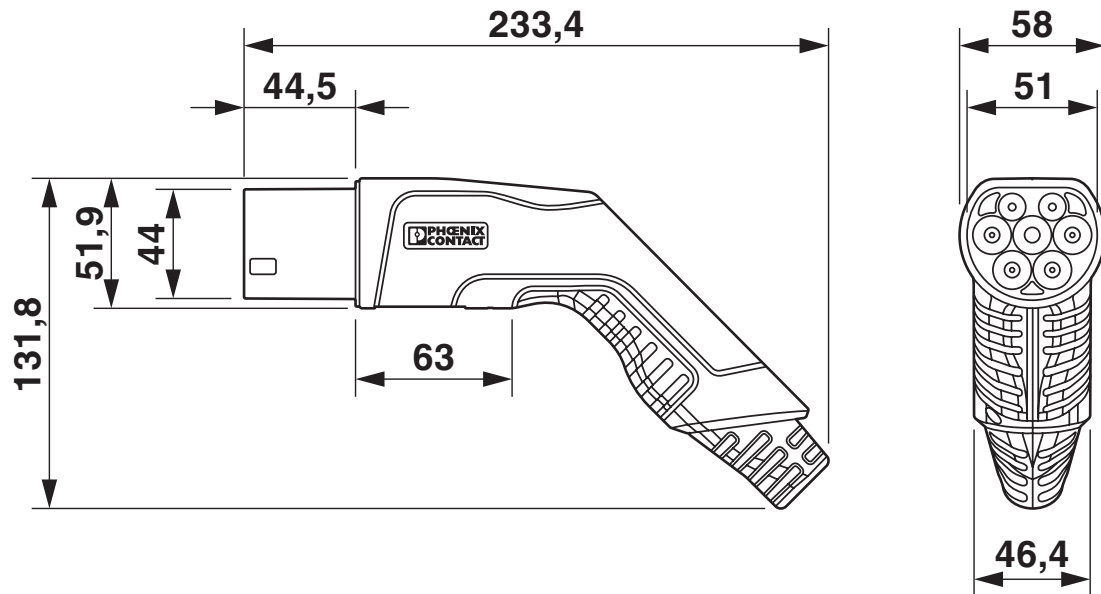


1623908

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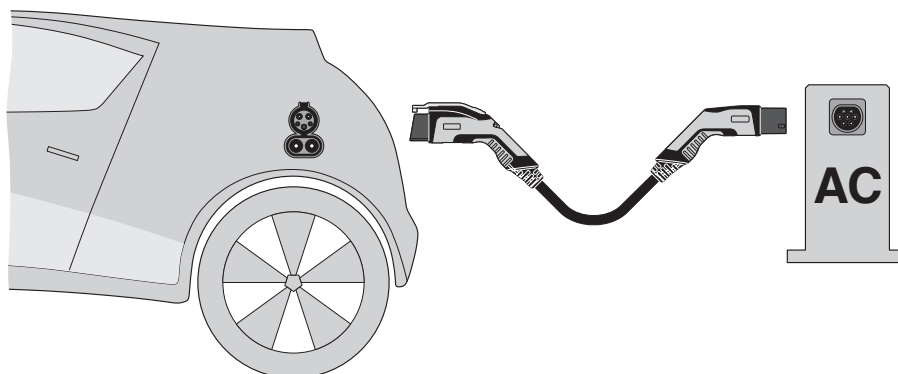
## Drawings

Dimensional drawing



Infrastructure plug

Schematic diagram



Terminology definition

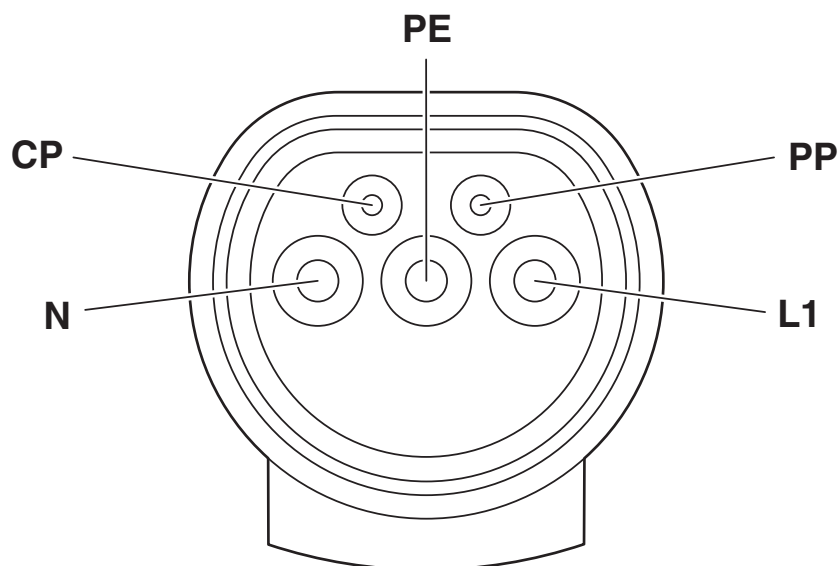
# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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Schematic diagram



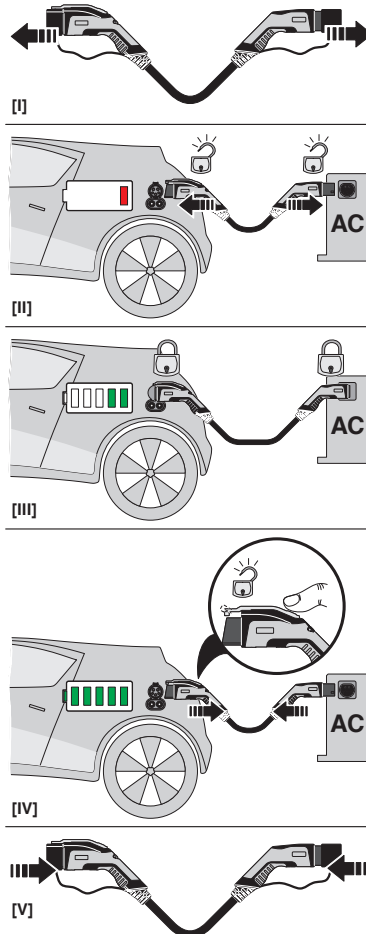
Type 2 infrastructure plug pin assignment

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## Schematic diagram



Operating instructions

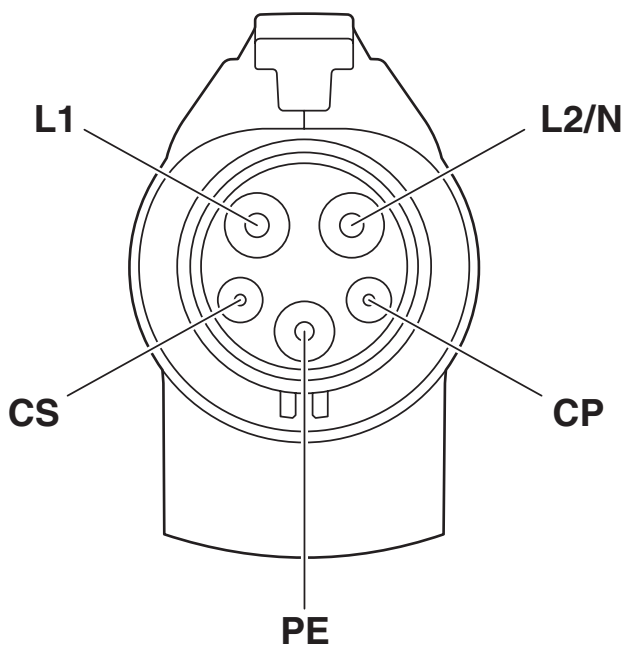
# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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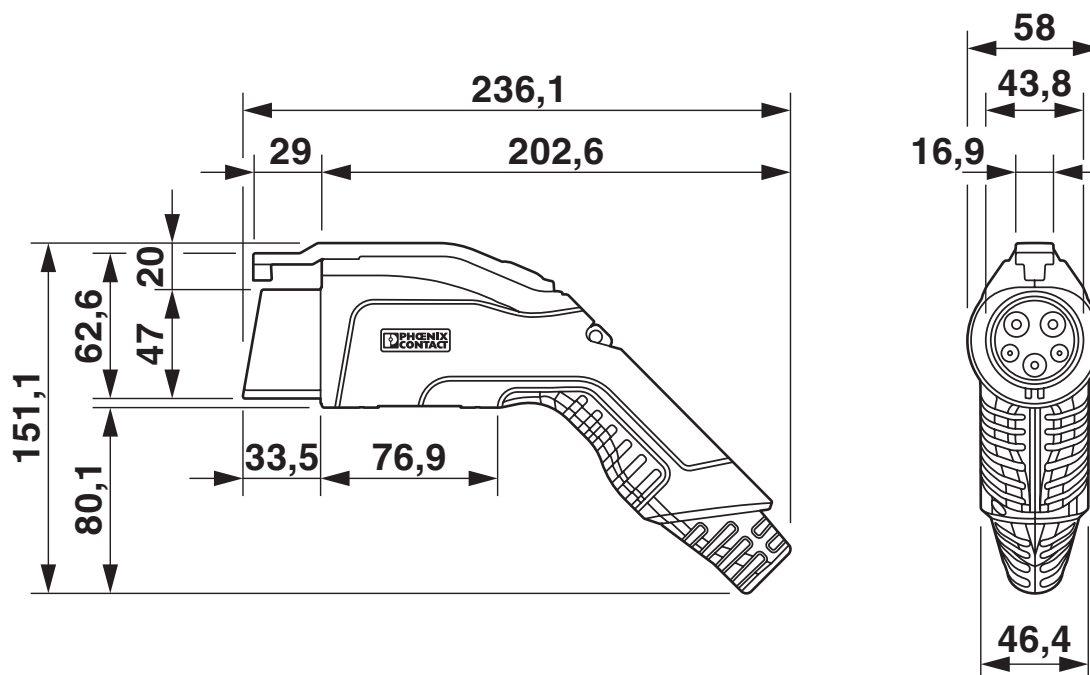
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Connection diagram



Pin assignment of the Vehicle Connector

Dimensional drawing




Vehicle connector




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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623908>

	<b>IECEE CB Scheme</b> Approval ID: DE1-65897			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	20 A	-	-

	<b>VDE Zeichengenehmigung</b> Approval ID: 40045426			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	20 A	-	-

1623908  
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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	b25b6625-33ea-456e-b33f-8d2eca4bdcac

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## Accessories

### EV-T1AC-PARK - Charging connector holder

1624139

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CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), Type 1, SAE J1772, Front mounting, housing: black

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### 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

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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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

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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

1268355

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



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

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

1164420

<https://www.phoenixcontact.com/us/products/1164420>



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

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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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-B - Label

1309758

<https://www.phoenixcontact.com/us/products/1309758>



CHARX connect, Label, Accessories, for AC type 1 vehicle charging connector with metric cable and for AC type 1 vehicle charging inlet, DIN EN 17186

# EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - AC charging cable



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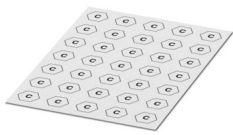
<https://www.phoenixcontact.com/us/products/1623908>

## EV-LABEL-C-SO - Label

1315521

<https://www.phoenixcontact.com/us/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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