

## AC charging cable - EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - 1623908

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CHARX connect, Mobile AC charging cable with vehicle charging connector and infrastructure charging plug, with protective caps, Housing color black-gray, with locking option for padlock, 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 1, Type 2, IEC 62196-2, SAE J1772, 20 A / 250 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 4 m, black, straight

### Product Description

Mobile AC charging cable with Vehicle Connector and Infrastructure Plug for charging electric vehicles (EV) with alternating current (AC), via type 1 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets at charging stations for E-Mobility (EVSE)

### Your advantages

- ✔ Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- ✔ Silver-plated surface of the power and signal contacts
- ✔ Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- ✔ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✔ Tested in accordance with selected tests of automotive standards LV124, LV214, LV215-2
- ✔ Laser-marked pin connector pattern in accordance with DIN EN 17186
- ✔ Reliable function of the locking lever with additional seal
- ✔ Optional locking option with a U-lock
- ✔ Consistent longitudinal water tightness prevents water ingress in the cable



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 230887
GTIN	4055626230887
Custom tariff number	85444290
Country of origin	Germany

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### Technical data

#### Product definition

Type	Mobile AC charging cable
	with vehicle charging connector and infrastructure charging plug
	with protective caps
	Housing color black-gray
	with locking option for padlock
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)
Affixed logo	"PHOENIX CONTACT" logo
Design	C-Line
Standards/regulations	IEC 62196-2
	SAE J1772
Charging standard	Type 1
	Type 2
Charging mode	Mode 3, Case B

#### Dimensions

Height	151.1 mm (Vehicle charging connector)
	131.8 mm (Infrastructure charging plug)
Width	58 mm (Vehicle charging connector)
	58 mm (Infrastructure charging plug)
Depth	236.1 mm (Vehicle charging connector)
	233.4 mm (Infrastructure charging plug)
Conductor length	4 m

#### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	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 (Protective cap)

#### Electrical properties

Charging power (nominal operation)	5 kW
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	20 A

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## Technical data

### Electrical properties

Rated voltage for power contacts	250 V AC
Number of signal contacts	2 (CP, CS)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Resistor coding	480 Ω (Lever actuated)
	150 Ω (Lever not actuated)

### Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 75 N
Withdrawal force	< 75 N

### Design

Design line	C-Line
Housing color	black
Mating face color	black
Color handle area	gray
Actuating element color	silver
Color protective cap	black
Customer variations	On request

### Material

Housing material	Plastic
Material handle area	Soft plastic
Actuating lever material	Metal
Material protective cap	Soft plastic
Material mating face	Plastic
Flammability rating	V0
Material surface of contacts	Ag

### Cable

Cable structure	3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring class	Class 5
Wiring certifications	VDE
External cable diameter	10.2 mm ±0.3 mm
Type of conductor	straight

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## Technical data

### Cable

Cable resistance	$\leq 0.00798 \Omega/m$ (based on a power core, at an ambient temperature of 20°C)
Outer sheath, material	TPE-U
External sheath, color	black
Minimum bending radius	153 mm (15 x diameter)
Cable weight	max. 163 kg/km

### Locking

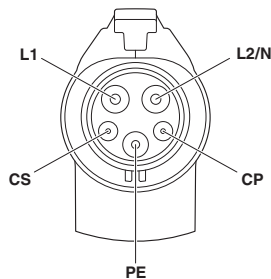
Locking type	Locking option for actuating lever with 4 mm U-lock
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### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

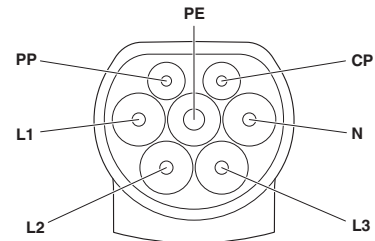
## Drawings

Connection diagram



Pin assignment of the Vehicle Connector

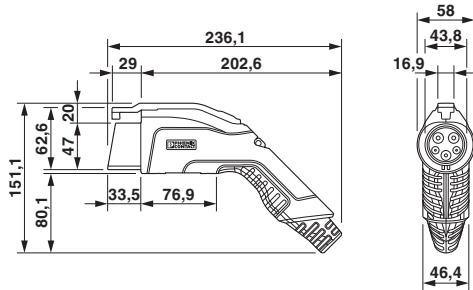
Connection diagram



Pin assignment of Infrastructure Plug

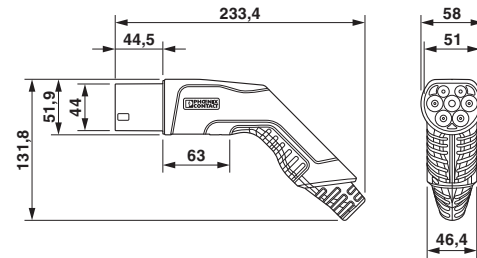
# AC charging cable - EV-TAG3PK-1AC20A-4,0M2,5ESBK01 - 1623908

Dimensional drawing



Vehicle connector

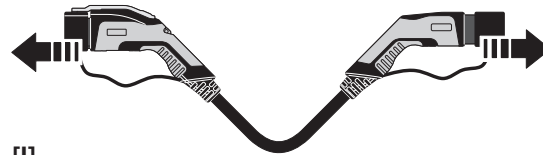
Dimensional drawing



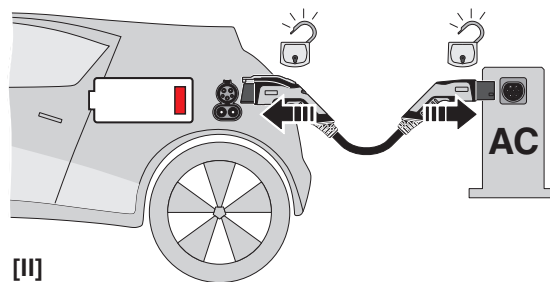
Infrastructure plug

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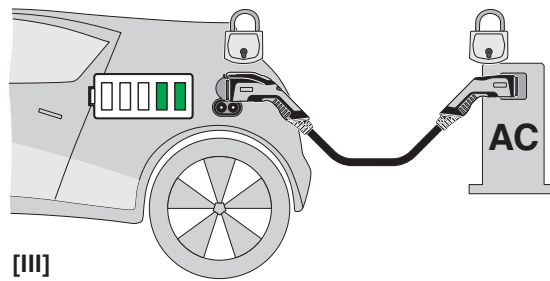
Schematic diagram



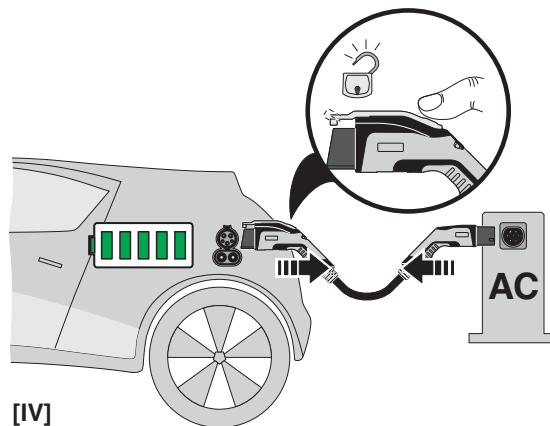
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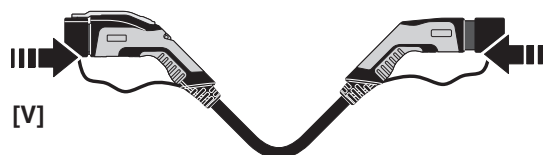
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[III]



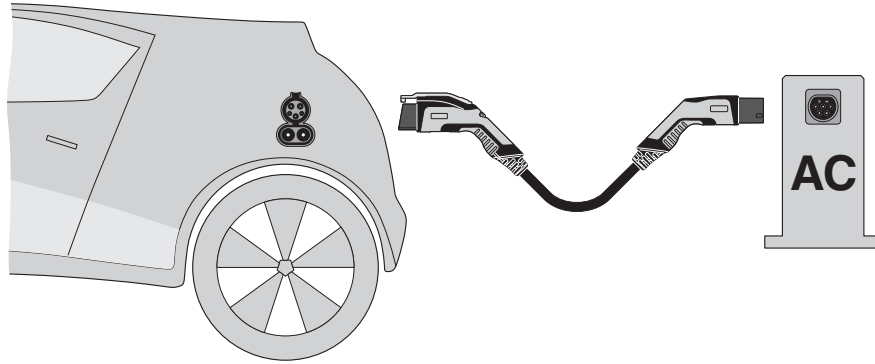
[IV]



[V]

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Schematic diagram



Terminology definition

## Classifications

### eCl@ss

eCl@ss 10.0.1	27144705
eCl@ss 11.0	27144705
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 9.0	27144705

### ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 6.0	EC002897
ETIM 7.0	EC002897

### UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522

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## Classifications

### UNSPSC

UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals


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#### Approvals

IECEE CB Scheme / VDE Zeichengenehmigung

#### Ex Approvals

### Approval details

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-60858
Nominal voltage UN		250 V	
Nominal current IN		20 A	

VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40045426
Nominal voltage UN		250 V	
Nominal current IN		20 A	

## Accessories

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Adhesive label

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### Accessories

Label - EV-LABEL-B - 1309758



CHARX connect, Label, accordance to DIN EN 17186, for AC charging cable, Marking B for AC type 1 vehicle charging connectors with metric charging cable and type 1 vehicle charging inlets

Label - EV-LABEL-C-SO - 1315521



CHARX connect, Label, accordance to DIN EN 17186, for AC charging cables and infrastructure charging sockets, Marking C for AC type 2 infrastructure charging plugs and type 2 infrastructure charging sockets

### Charging connector holder

Charging connector holder - EV-T1AC-PARK - 1624139



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

### Infrastructure socket outlet

Set - EV-T2M3SO12-3P-P-SET - 1164422



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Generation 2 Premium, "PHOENIX CONTACT" logo

Set - EV-T2M3SO12-4P-P-SET - 1164423



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Generation 2 Premium, "PHOENIX CONTACT" logo

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### Accessories

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#### Set - EV-T2M3SO12-3P-B-SET - 1164420



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Generation 2 Basic, "PHOENIX CONTACT" logo

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#### Set - EV-T2M3SO12-4P-B-SET - 1164417



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Generation 2 Basic, "PHOENIX CONTACT" logo

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