

# AC charging cable - EV-TAG3PK-1AC20A-4,0M2,5EHBK01 - 1628020

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Mobile AC charging cable with Vehicle Connector and Infrastructure Plug, with locking option for U-lock, with protective caps, C-Line black / gray, Type 1, Type 2, IEC 62196-2, SAE J1772, 20 A / 250 V (AC), design line C-Line, cable: 4 m, black, spiraled, mating face: black, handle area: gray

## 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
- ✔ Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- ✔ 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
- ✔ 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 377322
GTIN	4055626377322
Weight per Piece (excluding packing)	1,600.000 g
Custom tariff number	85444290
Country of origin	Germany

## Technical data

### Product definition

Product type	Mobile AC charging cable with Vehicle Connector and Infrastructure Plug, with locking option for U-lock, with protective caps
Type	C-Line black / gray

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## Technical data

### Product definition

Standards/regulations	IEC 62196-2
	SAE J1772
Charging standard	Type 1
	Type 2
Charging mode	Mode 3, Case B

### Dimensions

Vehicle connector width	58.00 mm
Vehicle connector height	151.10 mm
Vehicle connector depth	236.10 mm
Infrastructure plug width	58.00 mm
Infrastructure plug height	131.80 mm
Infrastructure plug depth	233.40 mm
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

Maximum charging power	5 kW
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	20 A
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

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## Technical data

### 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	spiraled
Outer sheath, material	TPE-U
External sheath, color	black
Minimum bending radius	153 mm (15 x diameter)
Coil diameter	45 mm ±10 %
Block length	0.68 m ±10 %
Effective length	max. 4 m ±5 %

### Locking

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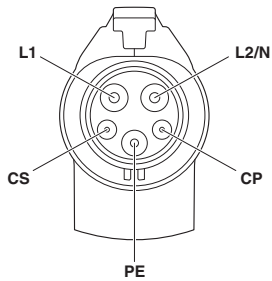
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

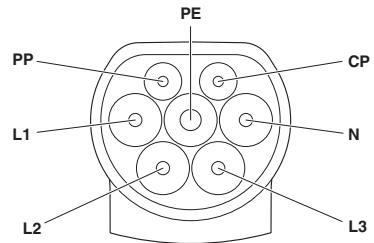
## Drawings

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Connection diagram



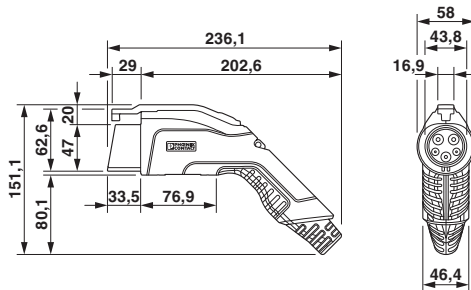
Connection diagram



Pin assignment of Infrastructure Plug

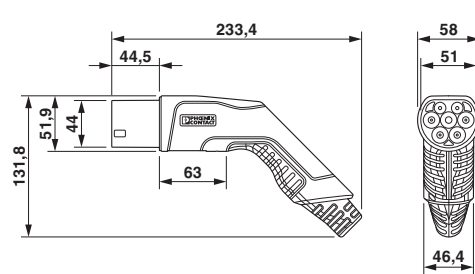
Pin assignment of the Vehicle Connector

Dimensional drawing



Vehicle connector

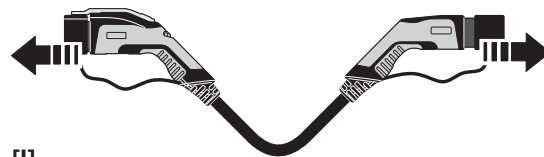
Dimensional drawing



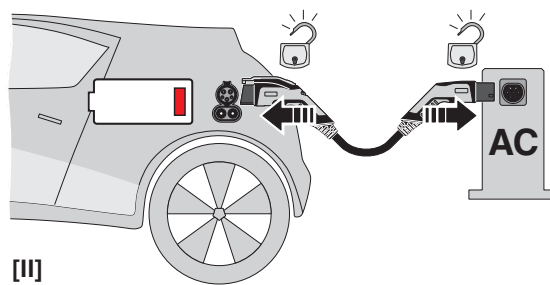
Infrastructure plug

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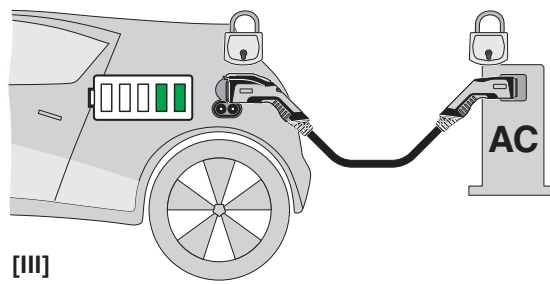
Schematic diagram



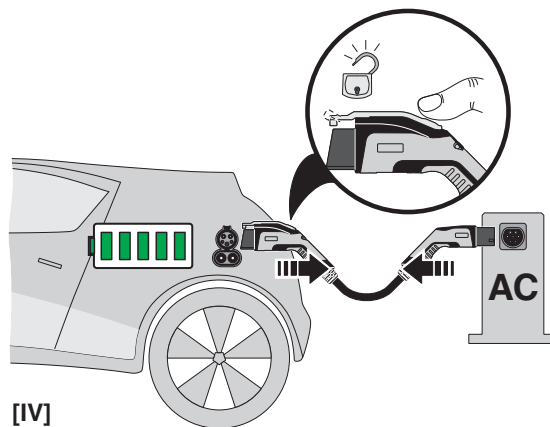
[I]



[II]



[III]



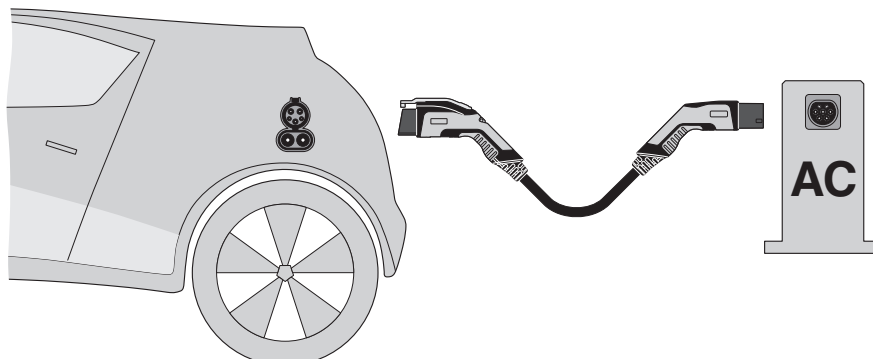
[IV]



[V]

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Schematic diagram



Terminology definition

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001
eCl@ss 9.0	27144705

### ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 5.0	EC002839
ETIM 6.0	EC002897

### UNSPSC

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

## Approvals

### Approvals

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Approvals

IECEE CB Scheme / VDE Zeichengenehmigung

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## Approvals

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

### Accessories

#### Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-3AC20A-0,7M2,5E10 - 1405213



Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), 12 V Locking actuator, Single wires, length: 0.7 m, Rear panel mounting, Rear protective cover screw connection

Socket Outlet - EV-T2M3SE24-3AC20A-0,7M2,5E10 - 1405215



Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), 24 V Locking actuator, Single wires, length: 0.7 m, Rear panel mounting, Rear protective cover screw connection

### Park position

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### Accessories

Park position - EV-T1AC-PARK - 1624139



Retainer for Vehicle Connector as parking position at charging stations (EVSE), Type 1, SAE J1772, Front mounting

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