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# AC charging cable - EV-T1G2K-1AC32A-12,0M10ASBK01 - 1628418

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AC charging cable with Vehicle Connector, open cable end, with locking option for U-lock, with protective cap, Type 1, SAE J1772, IEC 62196-2, 32 A / 250 V (AC), design line C-Line, cable: 12 m, black, straight, NOTE: Signal transmission is dependent on the cable length and may be adversely affected., mating face: black, handle area: gray

## Product Description


AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 1 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

## Why buy this product

- ✔ 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 STK
GTIN	 4 055626 446561
GTIN	4055626446561

## Technical data

### Product definition

Product type	AC charging cable with Vehicle Connector, open cable end, with locking option for U-lock, with protective cap
Type	C-Line black / gray
Standards/regulations	SAE J1772
	IEC 62196-2
Charging standard	Type 1

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## Technical data

### Product definition

Charging mode	Level 2
Note	NOTE: Signal transmission is dependent on the cable length and may be adversely affected.
	The cable capacity must therefore be assessed in the overall system of the charging station and must not exceed 3100 pF (IEC 61851-1, Annex A, Table A.2, Note d).
	Interference-free V2G communication in accordance with ISO 15118 is not guaranteed for cable lengths over 10 m (ISO IEC 15118-3, A.11.3, Table A.11).
	Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1).

### Dimensions

Vehicle connector width	58.00 mm
Vehicle connector height	151.10 mm
Vehicle connector depth	236.10 mm
Conductor length	12 m
Stripping length	60 mm ±15 mm

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
	3R

### Electrical properties

Maximum charging power	7.5 kW
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	32 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
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

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## Technical data

### Design

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 10 AWG + 1 x 18 AWG
Wiring standards/regulations	UL 62
	FFSO7.E343212
External cable diameter	17 mm ±0.4 mm
Type of conductor	straight
Outer sheath, material	TPE
External sheath, color	black
Minimum bending radius	255 mm (15 x diameter)

### Locking

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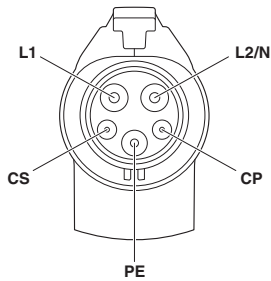
### Environmental Product Compliance

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"

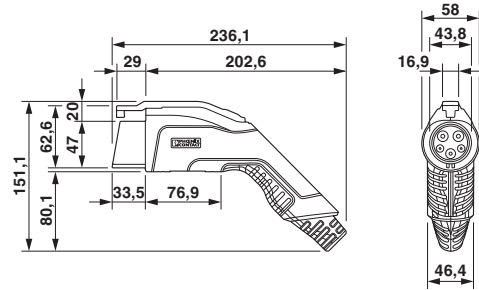
### Drawings

## AC charging cable - EV-T1G2K-1AC32A-12,0M10ASBK01 - 1628418

Connection diagram



Dimensional drawing

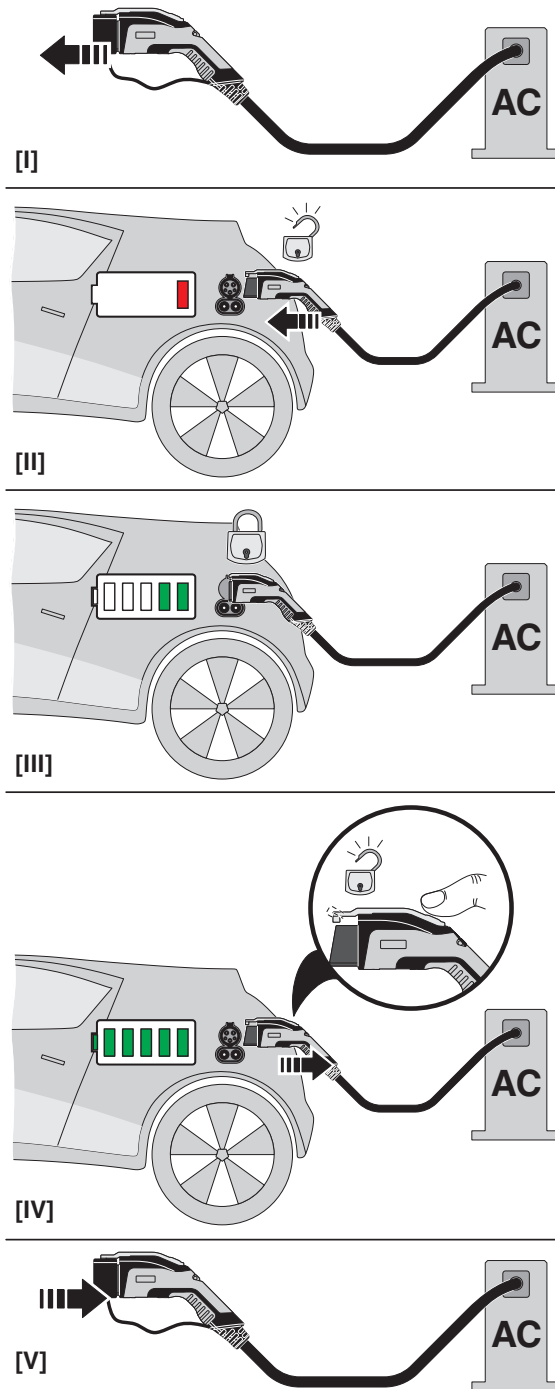


Pin assignment of the Vehicle Connector

Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

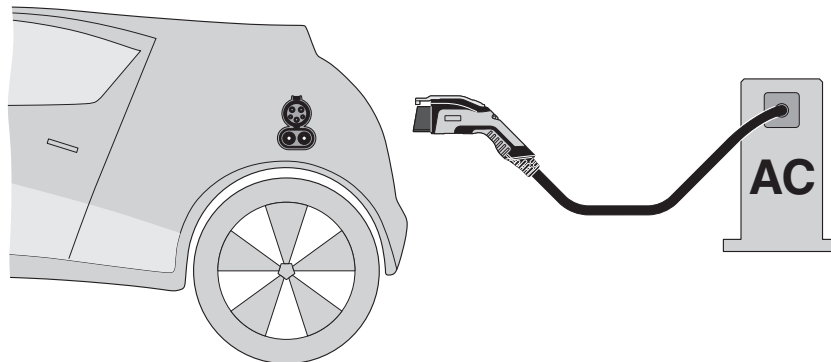
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Schematic diagram



# AC charging cable - EV-T1G2K-1AC32A-12,0M10ASBK01 - 1628418

Schematic diagram



## Terminology definition

## Approvals

### Approvals

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#### Approvals

cULus Recognized

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#### Ex Approvals

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## Approval details

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E473195-20160303
Nominal voltage UN	250 V	
Nominal current IN	32 A	
mm <sup>2</sup> /AWG/kcmil	10	

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