

# AC charging cable - EV-T1G2C-1AC32A-25FT10ASBK01



1628423

<https://www.phoenixcontact.com/pc/products/1628423>

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CHARX connect comfort, AC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, with protective cap, Type 1, SAE J1772, C-Line, PHOENIX CONTACT logo, cable: 25 ft, black, straight, NOTE: Cable management may be required.

## Product Description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, for installation 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	1628423
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	XWBAAA
GTIN	4055626446592
Weight per Piece (including packing)	3,704 g
Weight per Piece (excluding packing)	3,634 g
Customs tariff number	85444290
Country of origin	PL

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## Technical Data

### Product properties

Product type	AC charging cable
Application	for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets
	for installation at charging stations for electromobility (EVSE)
Type	AC charging cable
	with vehicle charging connector and open cable end
Design	with protective cap
Locking type	No locking option for U-lock
Affixed logo	PHOENIX CONTACT logo
Charging mode	AC level 2
Charging standard	Type 1

### 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	8 kW
Charging current	32 A

### Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	32 A

### Signal contact

Number	2 (CP, CS)
Rated voltage	30 V AC
Rated current	2 A

## Dimensions

### Vehicle charging connector

Width	58 mm
Height	151.1 mm
Depth	236.1 mm

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Width	58 mm
Height	151.1 mm
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## Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Actuating element)	silver gray (7001)
Color (Mating face)	black (9005)
Color (Protective cap)	black (9005)
Color (Cable)	black (9005)
Material (Vehicle charging connector)	Plastic
Material (Cable outer sheath)	TPE-U
Material (Contact surface)	Silver

## Cable / line

Cable length	25 ft
Wiring standards/regulations	UL 62
	FFSO7.E343212
Cable weight	max. 385 kg/km
Cable type	straight
Cable structure	3 x 10 AWG + 1 x 18 AWG
External cable diameter	17 mm ±0.4 mm
Outer sheath, material	TPE
Stripping length of the sheath	70 mm ±5 mm
Cable resistance	≤ 0.00351 Ω/m (based on a power core, at an ambient temperature of 20°C)

## Mechanical properties

Bending radius	min. 255 mm (15x diameter)
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### Mechanical data

Insertion/withdrawal cycles	> 10000
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 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

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Connection in accordance with standard	
Normative cable length restrictions	NOTE: Cable management may be required.  Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1).

Standards	
Standards/regulations	SAE J1772

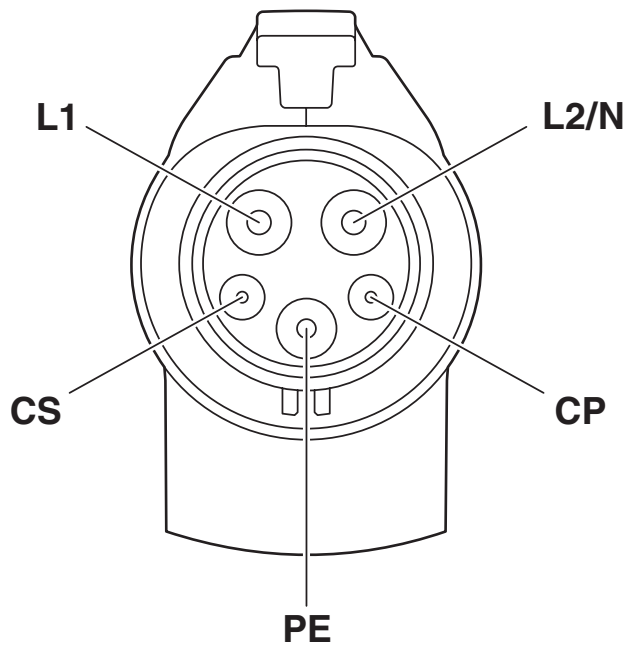
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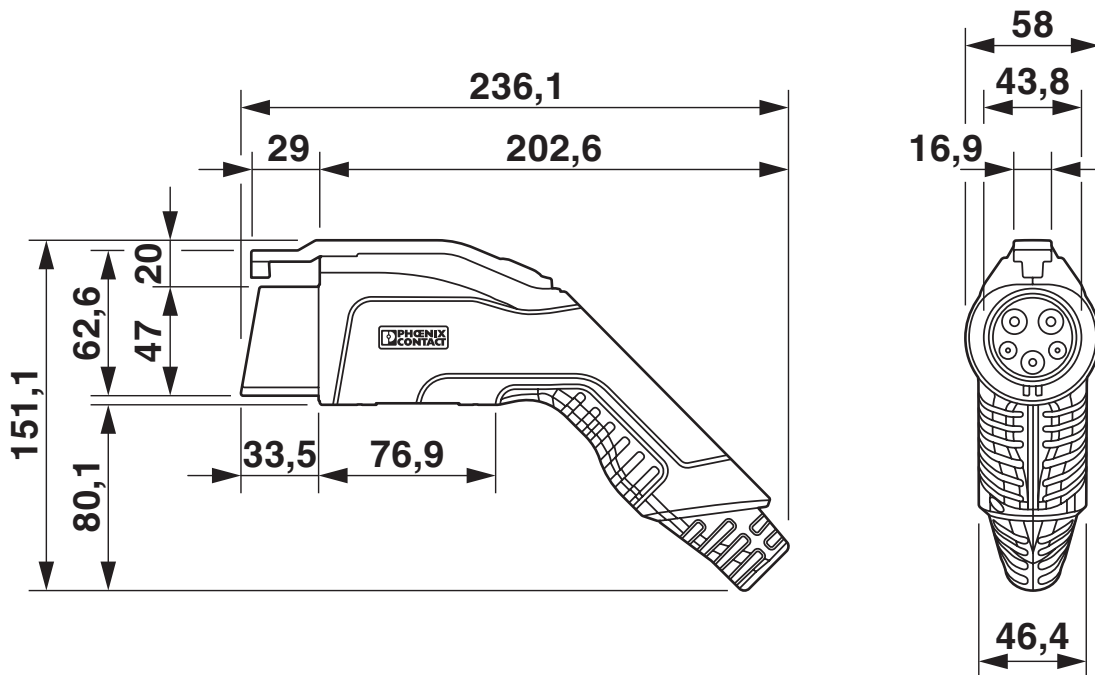
## Drawings

Connection diagram



Pin assignment of the Vehicle Connector

Dimensional drawing



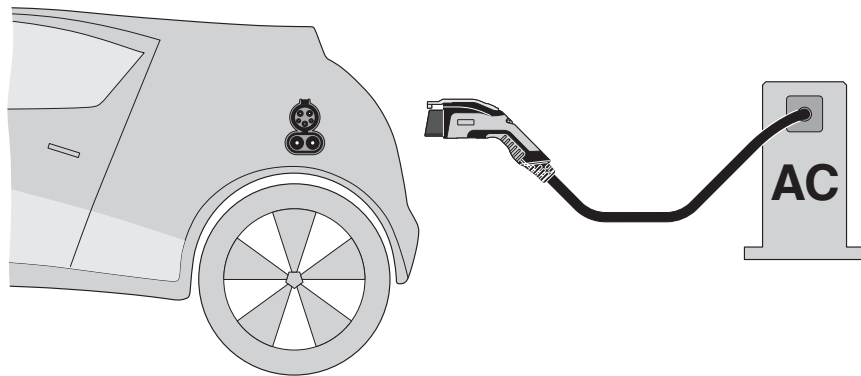
Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

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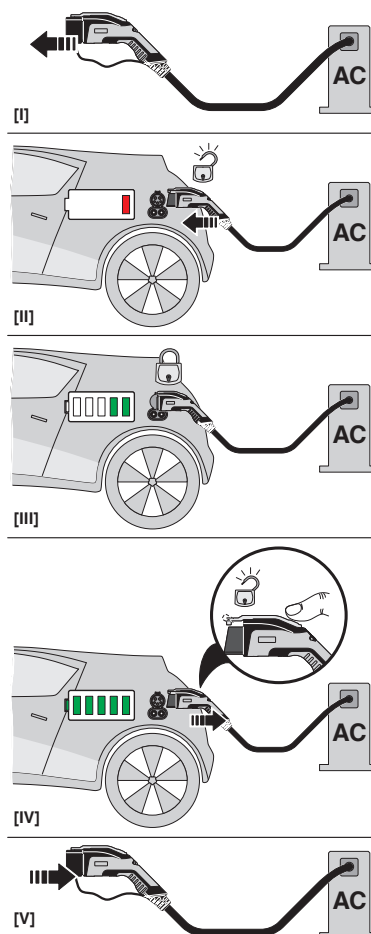
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Schematic diagram



## Terminology definition

Schematic diagram



## Operating instructions


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## Approvals

	<b>cULus Recognized</b>			
	Approval ID: E473195-20160303			
	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $\text{mm}^2$
	250 V	32 A	- 10	-

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## Classifications

### ECLASS

ECLASS-9.0	27144705
ECLASS-10.0.1	27144705
ECLASS-11.0	27144705

### ETIM

ETIM 8.0	EC002897
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### UNSPSC

UNSPSC 21.0	39121500
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### Charging connector holder

Charging connector holder - EV-T1AC-PARK - 1624139

<https://www.phoenixcontact.com/pc/products/1624139>



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

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### Cable gland

Cable gland - G-INS-M32-M68N-PNES-BK - 1411136

<https://www.phoenixcontact.com/pc/products/1411136>



Cable gland, material for screw connection: PA, external cable diameter 15 mm .  
.. 21 mm, shielding: no, connecting thread: M32 x 1.5, color: jet black RAL 9005

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