

# EV-T1G2C-1AC32A-19FT10ASBK01 - AC charging cable



1020770

<https://www.phoenixcontact.com/us/products/1020770>

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CHARX connect, 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, 32 A / 250 V (AC), PHOENIX CONTACT logo, cable: 19 ft, black, straight

## 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	1020770
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	EM01
Product key	XWBAAA
GTIN	4055626511061
Weight per piece (including packing)	3,965 g
Weight per piece (excluding packing)	3,965 g
Customs tariff number	85444290
Country of origin	PL

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## Technical data

### Product properties

Product type	AC charging cable
Product family	CHARX connect
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
Affixed logo	PHOENIX CONTACT logo

### Data management status

Article revision	06
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

## Material specifications

Color (Housing)	black (9005)
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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 (Cable outer sheath)	TPE-U
Material (Contact surface)	Silver

## Cable/line

Cable length	19 ft
Wiring standards/regulations	UL 62
	FFSO7.E343212
Cable weight	max. 385.00 kg/km
Cable type	straight
Cable structure	3 x 10 AWG + 1 x 18 AWG
External cable diameter	17.00 mm ±0.4 mm
Outer sheath, material	TPE
Stripping length of the sheath	70 mm ±5 mm
Stripping length	70 mm ±5 mm
Cable resistance	≤ 0.00351 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 255 mm (15x diameter)
Cable length	19 ft
Stripping length	70 mm ±5 mm
External cable diameter	17.00 mm ±0.4 mm
Wiring standards/regulations	UL 62
	FFSO7.E343212
Cable resistance	≤ 0.00351 Ω/m (based on a power core, at an ambient temperature of 20°C)

## Mechanical properties

### 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

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Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

## Standards and regulations

Standards	
Standards/regulations	SAE J1772

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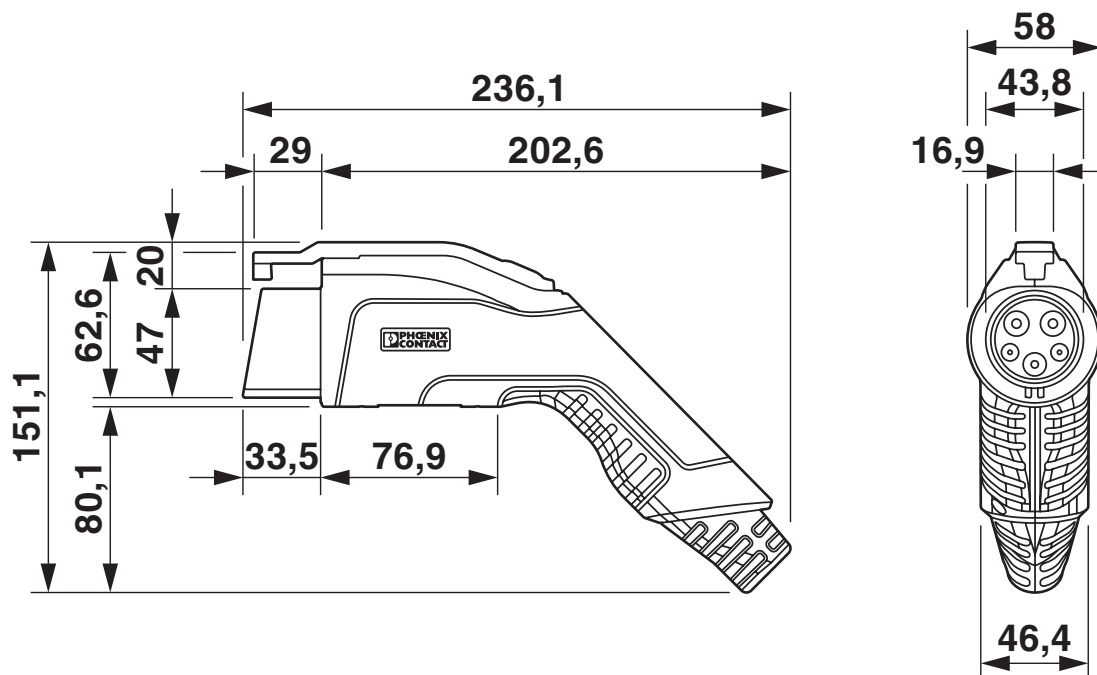


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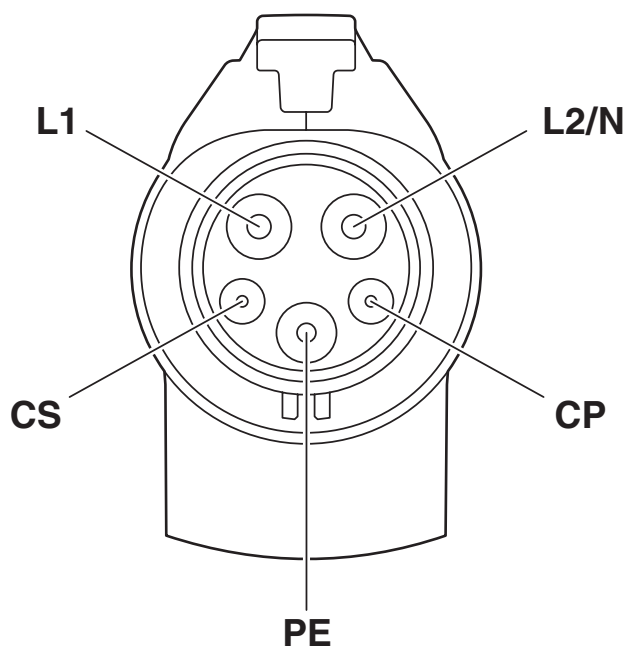
## Drawings

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.

Connection diagram



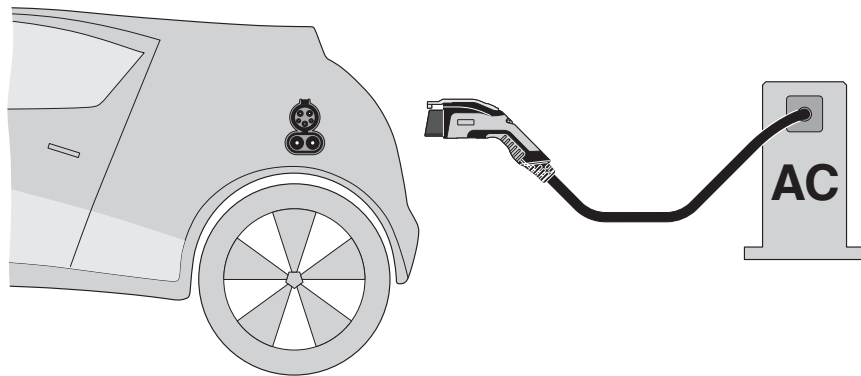
Pin assignment of the Vehicle Connector

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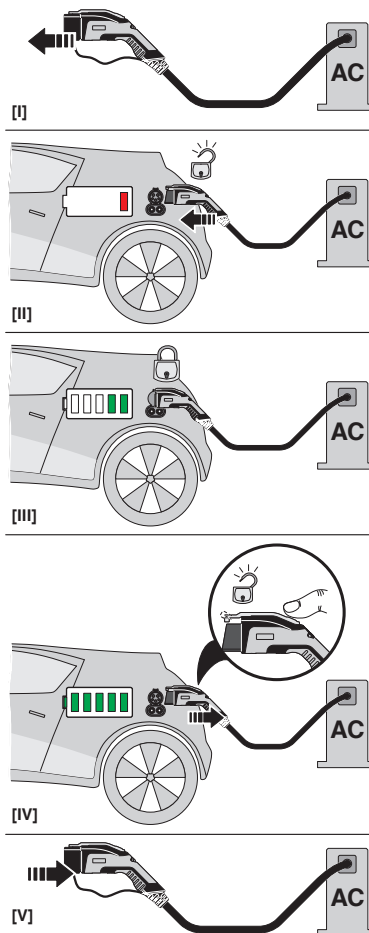
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Schematic diagram



## Terminology definition

Schematic diagram



## Operating instructions

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## Classifications

### ECLASS

ECLASS-11.0	27144705
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### ETIM

ETIM 8.0	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)



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## Accessories

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

1624139

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



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

1411136

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



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

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