

# EV-TCG3PK-1AC32A-5,0M6,0ESBK01 - AC charging cable



1050702

<https://www.phoenixcontact.com/us/products/1050702>

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CHARX connect comfort, GB/T, Type 2, Mobile AC charging cable, 32 A permanent, 440 V AC, with vehicle charging connector and infrastructure charging plug, cable: 5 m, black, straight, with protective cap, with locking option for padlock, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, GB/T 20234.2-2015, for charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets

## Product description

Mobile AC charging cable with vehicle charging connector and infrastructure charging plug for charging electric vehicles (EV) with alternating current (AC) via GB/T vehicle charging inlets, compatible with type 2 infrastructure charging sockets 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

## Commercial data

Item number	1050702
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBECB
GTIN	4055626669533
Weight per piece (including packing)	2,550 g
Weight per piece (excluding packing)	2,550 g
Country of origin	PL

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## Technical data

### Product properties

Product type	AC charging cable
Product family	CHARX connect comfort
Type	Mobile AC charging cable with vehicle charging connector and infrastructure charging plug
Design	with protective cap with locking option for padlock
Charging standard	GB/T Type 2
Charging mode	Mode 3, Case B
Affixed logo	PHOENIX CONTACT logo

### Electrical properties

#### Charging power and current (AC charging, 1-phase)

Type of charging current	AC single-phase
Charging current	32 A AC (1-phase)
Charging power	8 kW (1-phase)
Operating voltage	typ. 220 V

#### Pin assignment (Power contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Number	3 (L, N, PE)
Rated voltage	440 V AC
Rated current	32 A

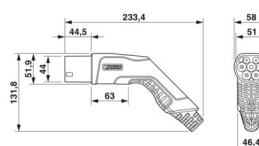
#### Pin assignment (Signal contacts)

Note on the connection method	Crimp connection, cannot be disconnected
Number	2 (CP, CC)
Rated voltage	30 V AC
Rated current	2 A
Coding	680 $\Omega$ (between PE and CC)

## Dimensions

### Infrastructure charging plug

Dimensional drawing



Infrastructure plug

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Width	58 mm
Height	131.8 mm
Depth	233.4 mm

## Vehicle charging connector

Dimensional drawing	<p>Vehicle connector</p>
Width	58 mm
Height	151.3 mm
Depth	238.7 mm

## Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
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
Note	The color appearance and gloss level of the charging cable may vary.

## Cable/line

Cable length	5 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 305.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 6.0 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
External cable diameter	12.80 mm ±0.4 mm
Outer sheath, material	TPE-U
Cable resistance	≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 96 mm (7.5x diameter)
Cable length	5 m
External cable diameter	12.80 mm ±0.4 mm
Cable type	Class 5
Wiring certifications	VDE

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Wiring standards/regulations	prEN 50620/DIN EN 50620
Cable resistance	≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Vehicle charging inlet)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensured if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
Degree of protection (Infrastructure charging plug)	IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensured 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

### Standards

Standards/regulations	IEC 62196-2
	GB/T 20234.2-2015

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## Drawings

Dimensional drawing



Vehicle connector

Dimensional drawing



Infrastructure plug

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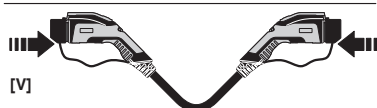
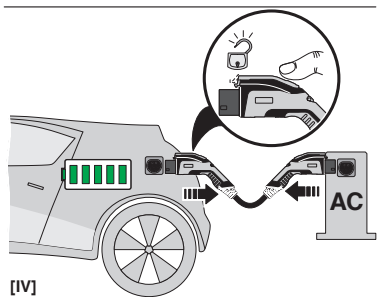
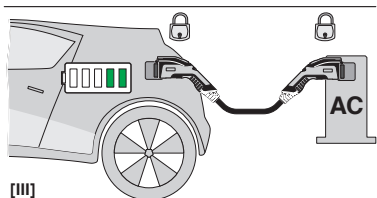
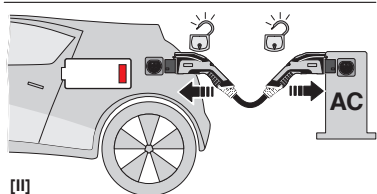
Pin assignment of Infrastructure Plug

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## Schematic diagram



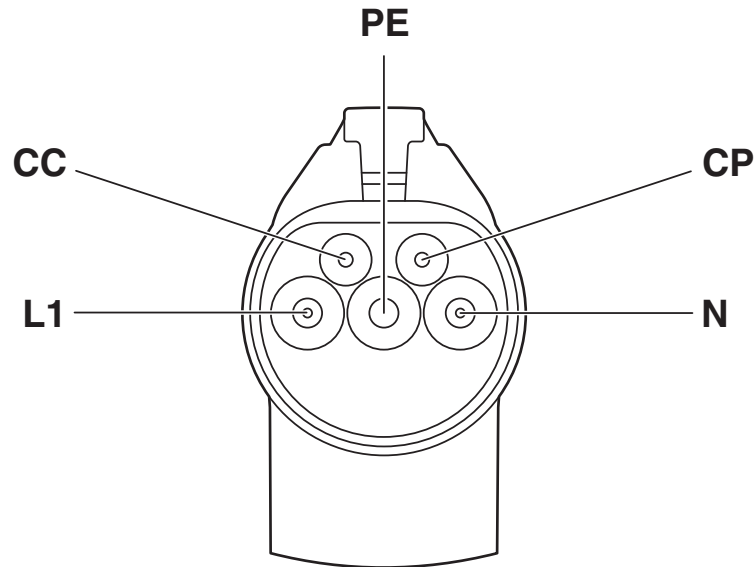
## Operating instructions

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Schematic diagram



Pin assignment of the Vehicle Connector

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## Classifications

### ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

### ETIM

ETIM 10.0	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-50
	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)
SCIP	42f650fa-fdc2-417a-898b-de362efd8129

### EF3.1 Climate Change

CO2e kg	38.88 kg CO2e
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)