

EV-TCM3PC-1AC16A-4,0M2,5ESBK00 - AC charging cable



1627113
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CHARX connect, GB/T, Type 2, Mobile AC charging cable, 16 A permanent, 250 V AC, with vehicle charging connector and infrastructure charging plug, cable: 4 m, black, straight, with protective cap, housing: black, gray, PHOENIX CONTACT logo, GB/T 20234.2-2015, IEC 62196-2, 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 (EVSE)

Your advantages

- Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- Silver-plated surface of the power and signal contacts
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Convenient handling, thanks to the ergonomic handle and additional, rubber grip components

Commercial data

Item number	1627113
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBAEH
GTIN	4055626298269
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

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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 GB/T vehicle charging inlets compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE)
Design	with protective cap
Charging standard	GB/T Type 2
Charging mode	Mode 3, Case B
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request
Label	14.1 mm x 44.8 mm (customer logo on request)

Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 Ω (between PE and CC)

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

Type of charging current	AC single-phase
Charging current	16 A AC (1-phase)
Charging power	4 kW

Pin assignment (Leistungskontakte)

Number	3 (L, N, PE)
Rated voltage	250 V
Rated current	16 A

Pin assignment (Signalkontakte)

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

Dimensions

Infrastructure charging plug

Width	60 mm
Height	122.4 mm
Depth	229.6 mm

Vehicle charging connector

Width	60 mm
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Height	112.4 mm
Depth	219.1 mm

Material specifications

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

Cable/line

Cable length	4 m
Wiring standards/regulations	prEN 50620/DIN EN 50620
Wiring certifications	VDE
Cable weight	max. 163.00 kg/km
Cable type	Class 5
Cable type	straight
Cable structure	3 x 2.5 mm ² + 1 x 0.5 mm ²
External cable diameter	10.20 mm ±0.3 mm
Outer sheath, material	TPE-U
Cable resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 153 mm (15x diameter)
Cable length	4 m
External cable diameter	10.20 mm ±0.3 mm
Cable type	Class 5
Wiring certifications	VDE
Wiring standards/regulations	prEN 50620/DIN EN 50620
Cable resistance	≤ 0.00798 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

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Degree of protection (Vehicle charging inlet)	IP55 (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 (Infrastructure charging plug)	IP55 (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

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

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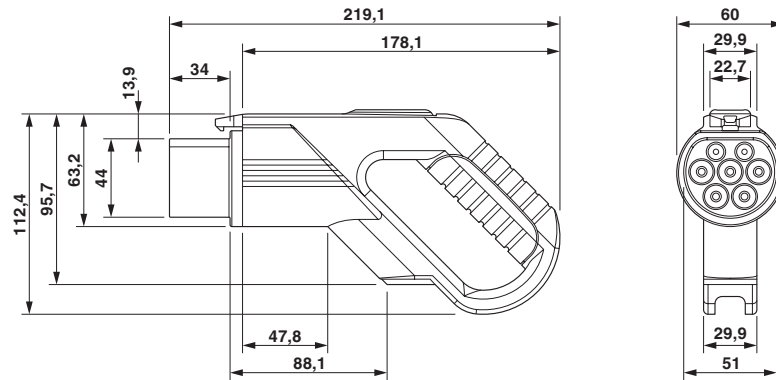


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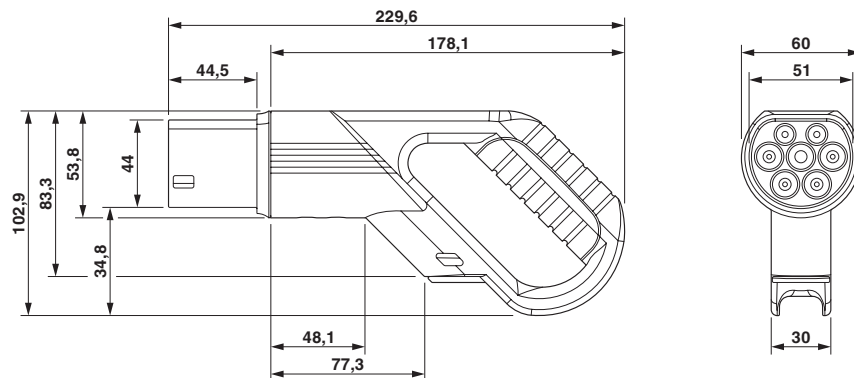
Drawings

Dimensional drawing



Vehicle connector

Dimensional drawing



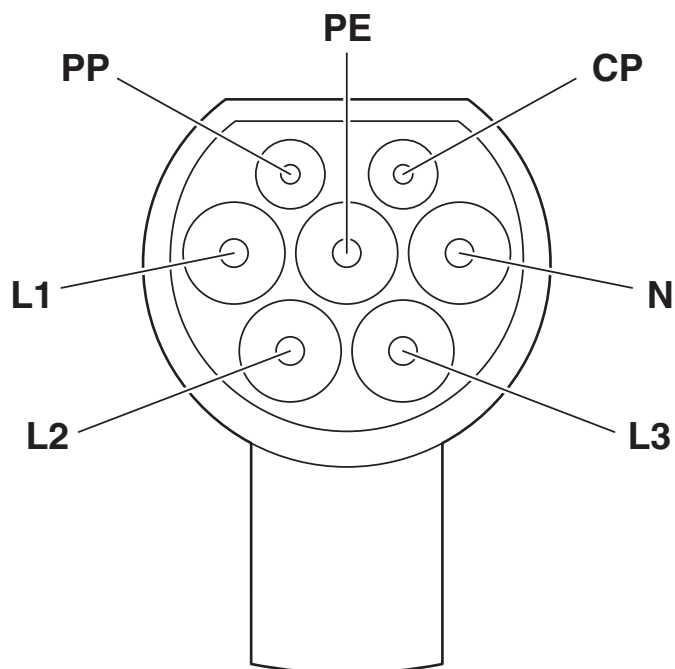
Infrastructure plug

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Connection diagram



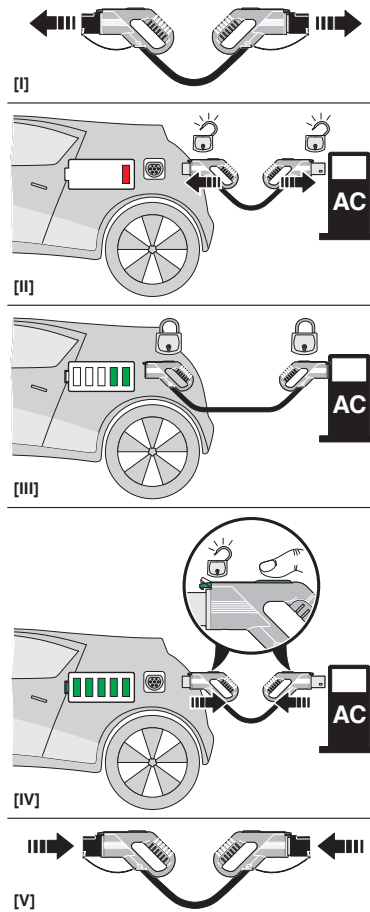
Pin assignment of Infrastructure Plug

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Schematic diagram



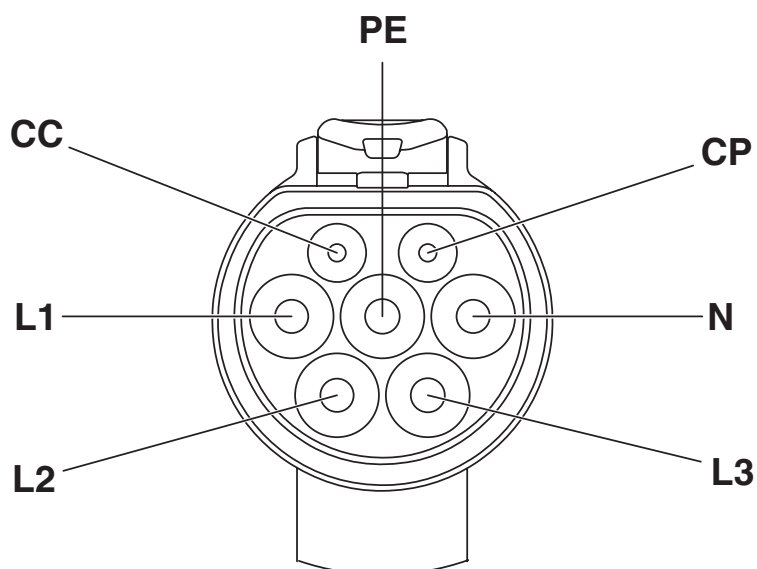
Operating instructions

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Schematic diagram



Pin assignment of the Vehicle Connector

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Classifications

UNSPSC

UNSPSC 21.0	39121522
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Not applicable
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.)	No substance above 0.1 wt%

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