

# CHARX ET2CP-3AC20-5,0MES00P - AC charging cable



1285624

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CHARX connect eco, Mobile AC charging cable, with vehicle charging connector and infrastructure charging plug, for charging electric vehicles (EV) with alternating current (AC), with protective cap, Type 2, IEC 62196-2, 20 A / 480 V (AC), PHOENIX CONTACT logo, cable: 5 m, black, straight, The protective cap included in the scope of delivery is plugged onto the vehicle charging connector for which protection is required by standard.

## Product description

Mobile AC charging cable with vehicle charging connector and infrastructure charging plug for charging electric vehicles (EV) with alternating current (AC) via type 2 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
- Laser-marked mating face in accordance with DIN EN 17186

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## Technical data

### Notes

General	The protective cap included in the scope of delivery is plugged onto the vehicle charging connector for which protection is required by standard.
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### Product properties

Product type	AC charging cable
Product family	CHARX connect eco
Application	for charging electric vehicles (EV) with alternating current (AC) compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE)
Type	Mobile AC charging cable with vehicle charging connector and infrastructure charging plug
Design	with protective cap
Affixed logo	PHOENIX CONTACT logo

### Data management status

Article revision	10
Charging mode	Mode 3, Case B
Charging standard	Type 2

### Electrical properties

Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Coding	680 $\Omega$ (between PE and PP)
Type of charging current	AC 3-phase
Charging power	16.63 kW
Charging current	20 A

### Power contact

Number	5 (L1, L2, L3, N, PE)
Rated voltage	480 V
Rated current	20 A

### Signal contact

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

### Dimensions

Width	57 mm
Height	77.5 mm
Depth	193.3 mm

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## Vehicle charging connector

Dimensional drawing	
Width	70.4 mm
Height	82.3 mm
Depth	201.8 mm

## Material specifications

Color (Housing)	black (9005)
	black (9005)
	black (9005)
	black (9005)
	black (9005)
Material (Vehicle charging connector)	Plastic
	TPE-U
	Silver

## Cable/line

Cable length	5 m
Cable weight	max. 193.00 kg/km
Cable type	straight
Cable structure	5 x 1.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
External cable diameter	11.55 mm ±0.35 mm
Outer sheath, material	TPE-U
Cable resistance	≤ 0.011324 Ω/m (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 86.625 mm (7.5x diameter)

## 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 connector)	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 (Infrastructure charging plug)	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components

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	are original products from Phoenix Contact or suitable standard-compliant products)
Degree of protection (Protective cap)	IP54
Ambient temperature (operation)	-40 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	max. 5000 m (above sea level)

## Standards and regulations

### Standards

Standards/regulations	IEC 62196-2
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