

# AC charging cable - EV-T2M3PC-3AC20A-4,0M2,5EHBK00 - 1404567

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Design line 1, Mobile AC charging cable with vehicle connector and infrastructure plug, with protective cap, Type 2, IEC 62196-2, 20 A / 480 V (AC), cable: 4 m, black, spiraled



## Product Description


Mobile AC charging cable with Vehicle Connector and Infrastructure plug for charging electric vehicles (EV) with alternating current (AC), via type 2 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets at charging stations for E-Mobility (EVSE)

## Your advantages

- ✓ Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- ✓ Silver-plated surface of the power and signal contacts
- ✓ Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- ✓ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 699693
GTIN	4046356699693

## Technical data

### Product definition

Type	D-Line
Application	Mobile AC charging cable with vehicle connector and infrastructure plug, with protective cap
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case B

### Dimensions

Vehicle connector width	60.00 mm
Vehicle connector height	102.90 mm
Vehicle connector depth	229.60 mm

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## Technical data

### Dimensions

Infrastructure plug width	60.00 mm
Infrastructure plug height	102.90 mm
Infrastructure plug depth	229.60 mm
Conductor length	4 m

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	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)
	IP44 (Protective cap)

### Electrical properties

Maximum charging power	16.63 kW
Number of phases	3
Number of power contacts	5 (L1, L2, L3, N, PE)
Rated current of power contacts	20 A
Rated voltage for power contacts	480 V AC
Number of signal contacts	2 (CP, PP)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Resistor coding	680 Ω (between PE and PP)

### Mechanical properties

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

### Design

Design line	D-Line
Housing color	black
Mating face color	gray
Color handle area	gray
Color protective cap	black
Label	14.1 mm x 44.8 mm (customer logo on request)

### Material

Housing material	Plastic
Material handle area	Soft plastic
Material protective cap	Soft plastic

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## Technical data

### Material

Material mating face	Plastic
Material surface of contacts	Ag

### Cable

Cable structure	5 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring class	Class 5
Wiring certifications	VDE
External cable diameter	12.8 mm ±0.4 mm
Type of conductor	spiraled
Cable resistance	≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C)
Outer sheath, material	TPE-U
External sheath, color	black
Minimum bending radius	192 mm (15 x diameter)
Coil diameter	60 mm ±10 %
Block length	0.63 m ±10 %
Effective length	max. 4 m ±5 %

### Locking

Locking type	No locking option for U-lock
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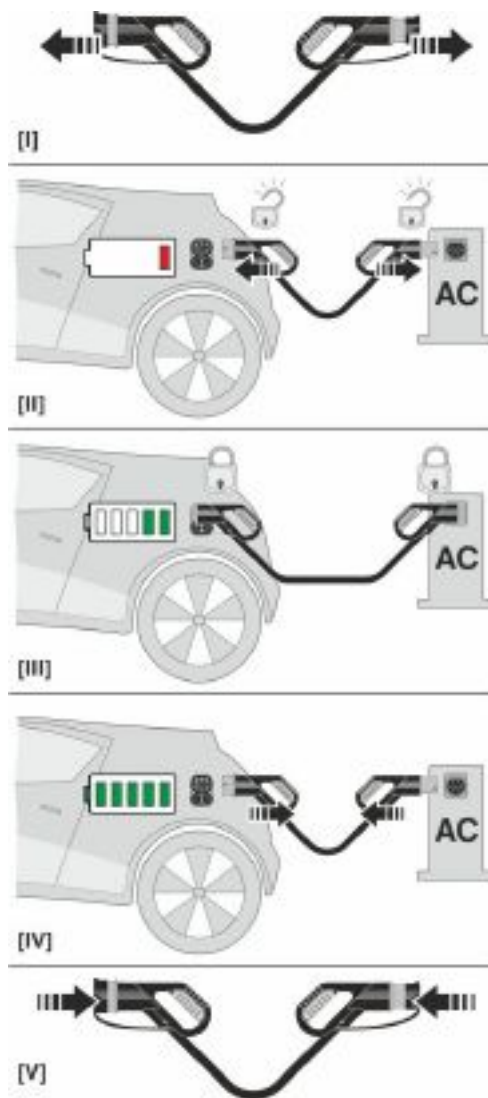
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

# AC charging cable - EV-T2M3PC-3AC20A-4,0M2,5EHBK00 - 1404567

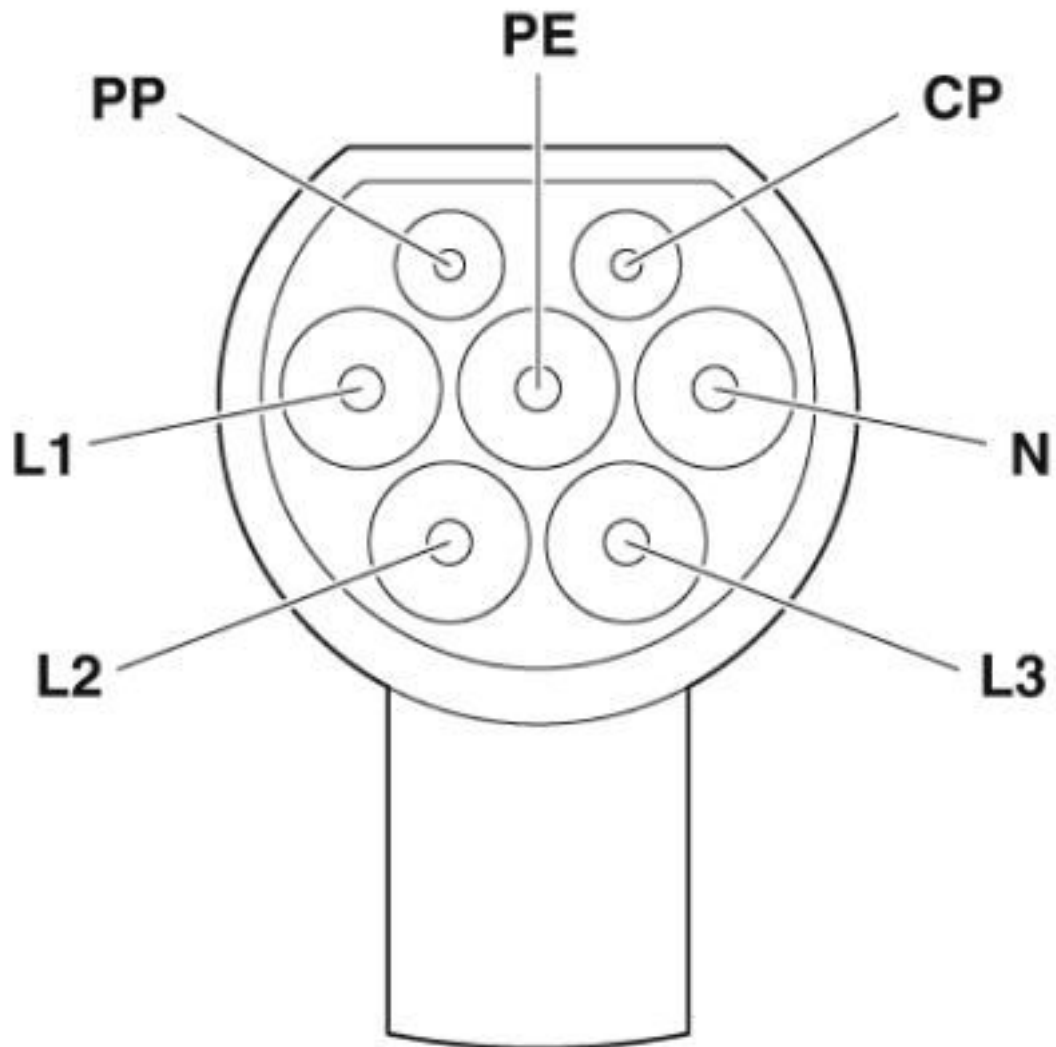
Schematic diagram



Operating instructions

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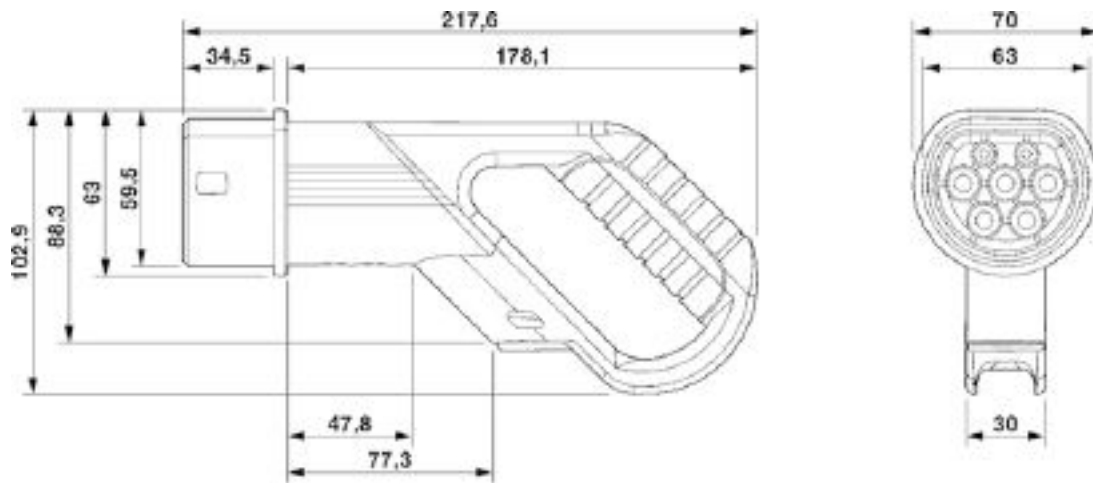
Connection diagram



Pin assignment of Infrastructure Plug

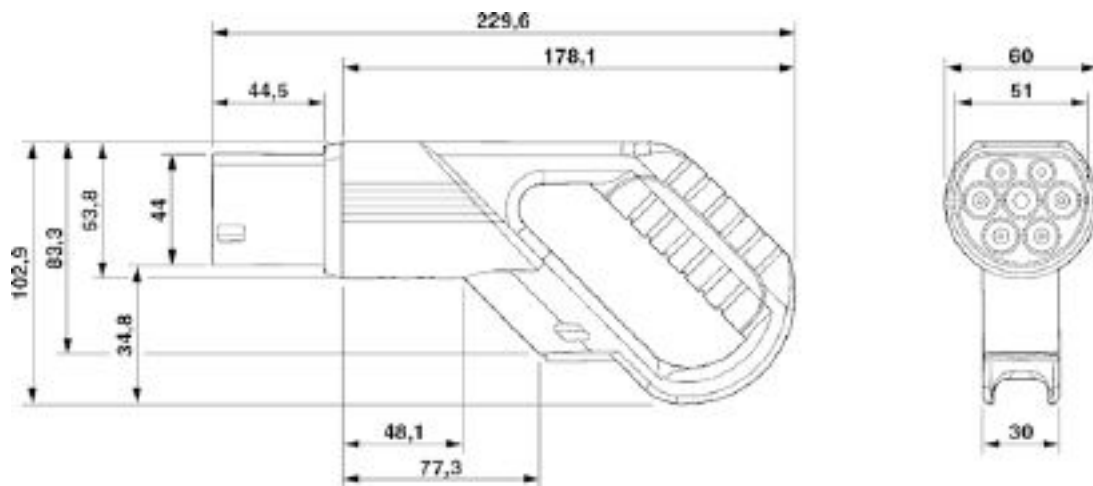
# AC charging cable - EV-T2M3PC-3AC20A-4,0M2,5EHBK00 - 1404567

Dimensional drawing



Vehicle connector

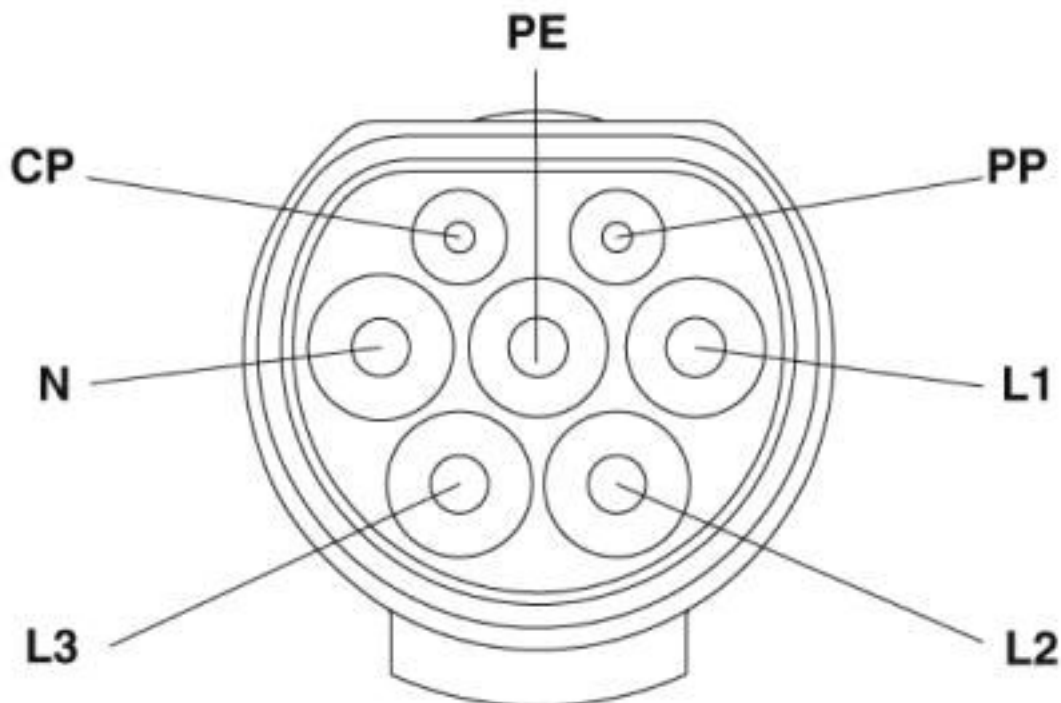
Dimensional drawing



Infrastructure plug

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Schematic diagram



Pin assignment of the Vehicle Connector

## Classifications

eCl@ss

eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001

ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002061
ETIM 5.0	EC002839
ETIM 6.0	EC002897
ETIM 7.0	EC002897

UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432

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## Classifications

### UNSPSC

UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

## Approvals

### Approvals

#### Approvals

VDE Zeichengenehmigung / IECCEB Scheme

#### Ex Approvals

### Approval details

VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40038180
Nominal voltage UN	480 V		
Nominal current IN	20 A		

IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-61526
Nominal voltage UN	480 V		
Nominal current IN	20 A		

## Accessories

### Accessories

Infrastructure socket outlet



## AC charging cable - EV-T2M3PC-3AC20A-4,0M2,5EHBK00 - 1404567

### Accessories

Socket Outlet - EV-T2M3SE12-3AC20A-0,7M2,5E10 - 1405213



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Socket Outlet - EV-T2M3SE24-3AC20A-0,7M2,5E10 - 1405215



Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 24 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

### Park position

Park position - EV-T2AC-PARK - 1624148



Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), Type 2, IEC 62196-2, Front mounting

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