

AC charging cable - EV-TCM3PC-1AC16A-4,0M2,5ESBK00 - 1627113

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Mobile AC charging cable, with vehicle charging connector and infrastructure charging plug, with protective caps, Housing color black-gray, 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), GB/T, Type 2, GB/T 20234.2-2015, IEC 62196-2, 16 A / 250 V (AC), D-Line, "PHOENIX CONTACT" logo, cable: 4 m, black, straight

Product Description


Mobile AC charging cable with vehicle connector and infrastructure plug for charging electric vehicles (EV) with alternating current (AC), via a GB/T vehicle inlet, compatible with type 2 infrastructure socket outlets 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
- ✓ 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 055626 298269
GTIN	4055626298269

Technical data

Product definition

Type	Mobile AC charging cable with vehicle charging connector and infrastructure charging plug with protective caps Housing color black-gray
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)
Affixed logo	"PHOENIX CONTACT" logo
Design	D-Line

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Technical data

Product definition

Standards/regulations	GB/T 20234.2-2015
	IEC 62196-2
Charging standard	GB/T
	Type 2
Charging mode	Mode 3, Case B

Dimensions

Height	112.4 mm (Vehicle charging connector)
	112.4 mm (Infrastructure charging plug)
Width	60 mm (Vehicle charging connector)
	60 mm (Infrastructure charging plug)
Depth	219.1 mm (Vehicle charging connector)
	229.6 mm (Infrastructure charging plug)
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	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)
	IP54 (Protective cap)

Electrical properties

Maximum charging power	4 kW
Number of phases	1
Number of power contacts	3 (L, N, PE)
Rated current of power contacts	16 A
Rated voltage for power contacts	250 V
Number of signal contacts	2 (CP, CC)
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 CC)

Mechanical properties

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

Design

Design line	D-Line
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Technical data

Design

Housing color	black
Mating face color	gray
Color handle area	gray
Actuating element color	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
Actuating lever material	Plastic
Material protective cap	Plastic
Material mating face	Plastic
Material surface of contacts	Ag

Cable

Cable structure	3 x 2.5 mm ² + 1 x 0.5 mm ²
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring class	Class 5
Wiring certifications	VDE
External cable diameter	10.2 mm ±0.3 mm
Type of conductor	straight
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	153 mm (15 x diameter)
Cable weight	max. 163 kg/km

Locking

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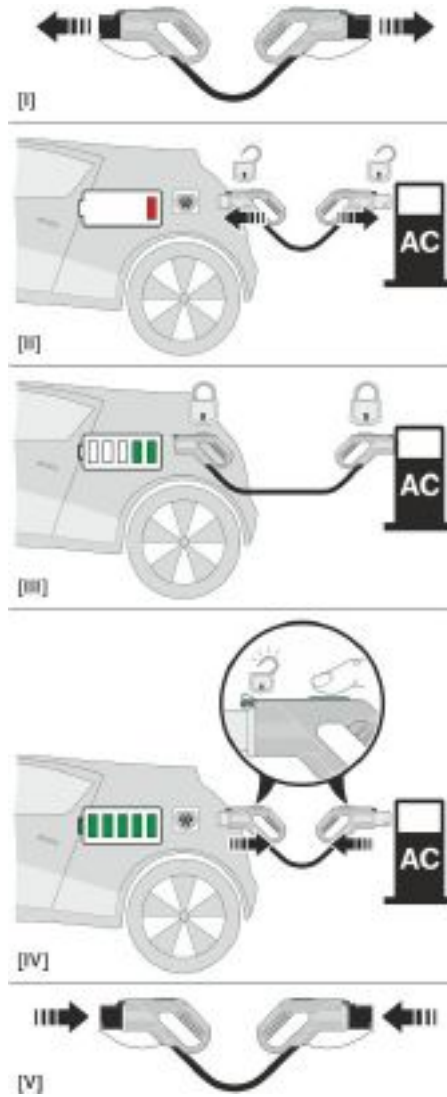
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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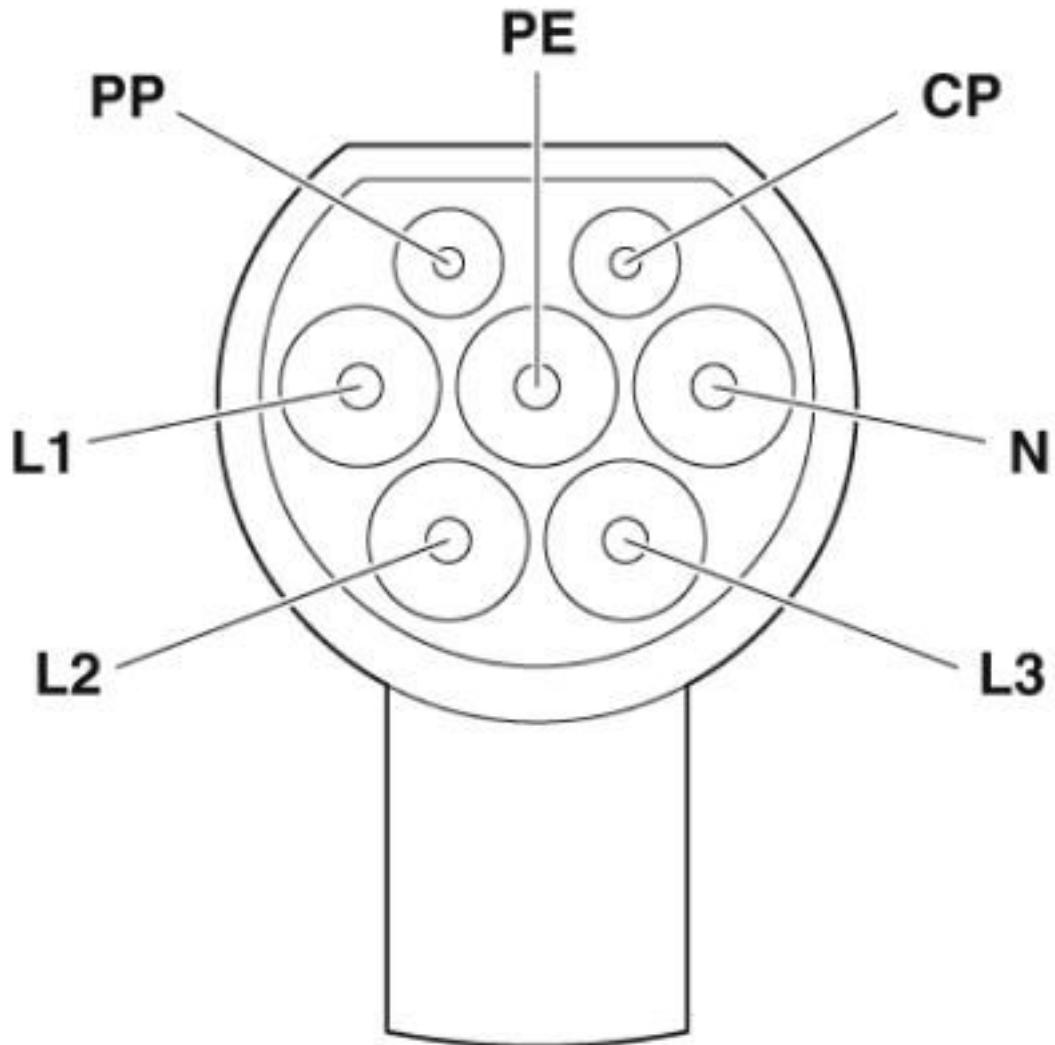
Schematic diagram



Operating instructions

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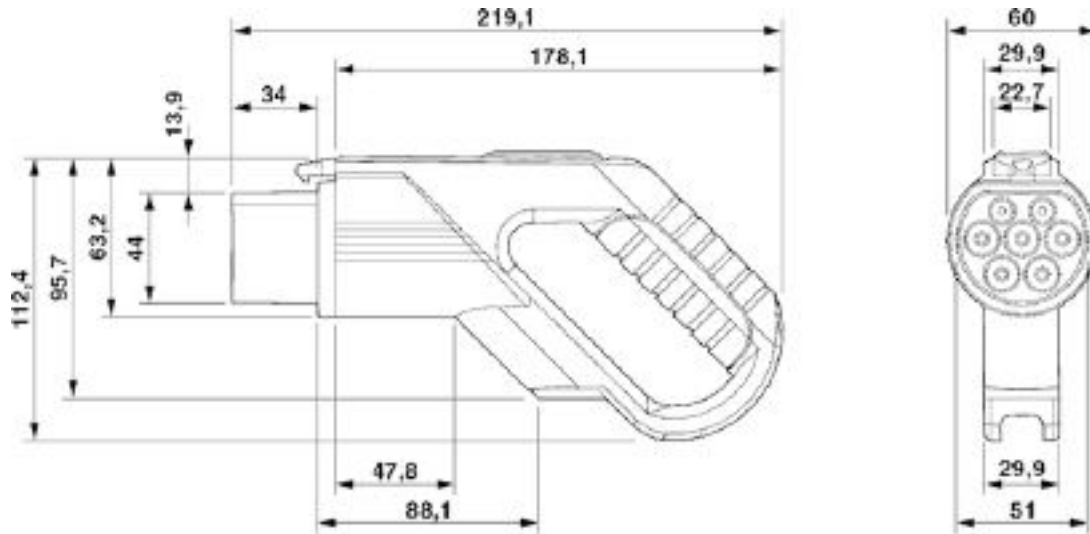
Connection diagram



Pin assignment of Infrastructure Plug

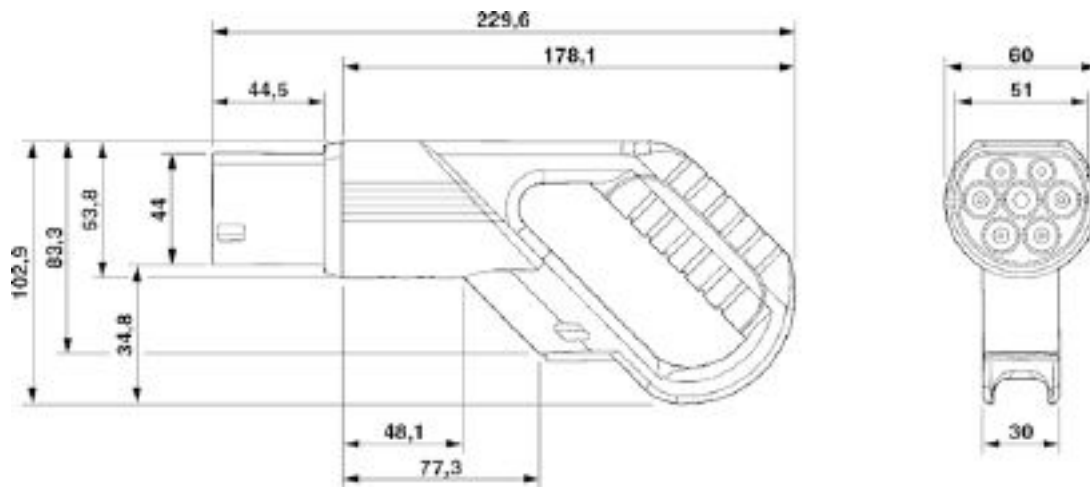
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Dimensional drawing



Vehicle connector

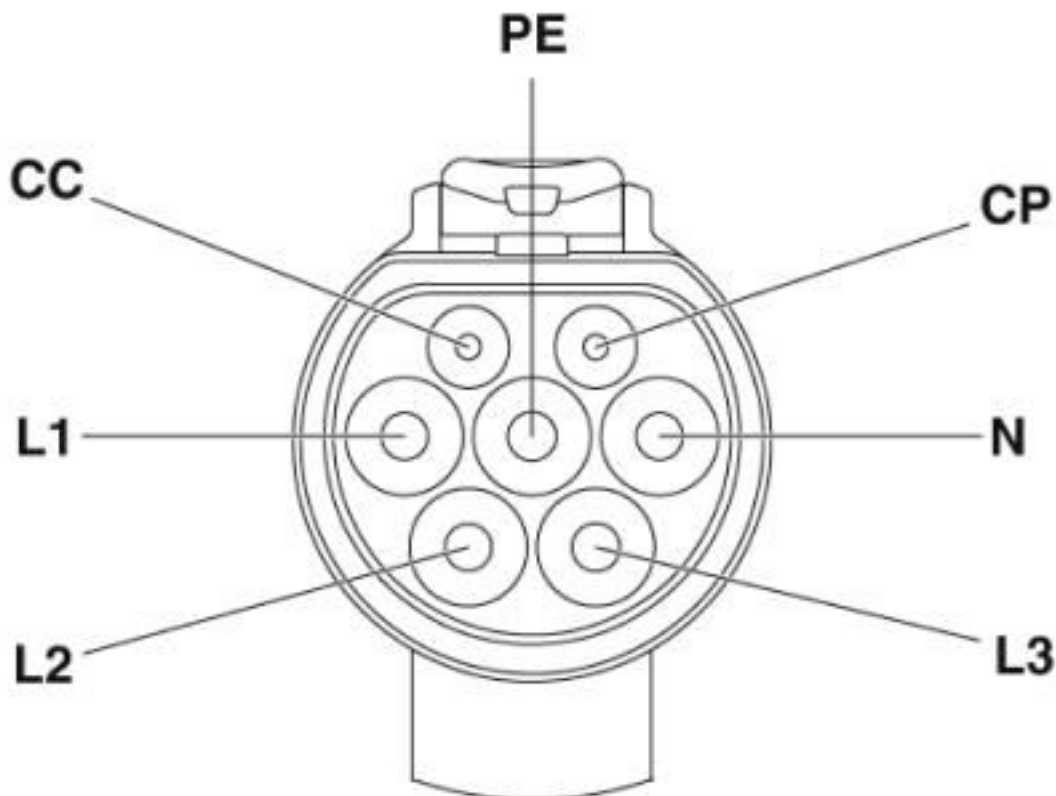
Dimensional drawing



Infrastructure plug

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Schematic diagram



Pin assignment of the Vehicle Connector

Classifications

eCI@ss

eCI@ss 10.0.1	27144705
eCI@ss 4.0	27140800
eCI@ss 4.1	27140800
eCI@ss 5.0	27143400
eCI@ss 5.1	27143400
eCI@ss 6.0	27143400
eCI@ss 7.0	27449001
eCI@ss 8.0	27449001
eCI@ss 9.0	27144705

ETIM

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

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Classifications

ETIM

ETIM 7.0	EC002897
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UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
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

Accessories

Accessories

Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-1AC32A-0,7M6,0E10 - 1628124



Socket Outlet, rear protective cover screw connection, For charging electric vehicles with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 250 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-T2M3SE12-1AC32A-0,7M6,0E12 - 1628147



Socket Outlet, front protective cover screw connection, For charging electric vehicles with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 250 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Park position

Park position - EV-GBAC-PARK - 1624142



Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), GB/T, GB/T 20234.2, Front mounting

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