

AC charging cable - EV-T2G3PC-3AC20A-4,0M2,5EHBK01 - 1627135

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Mobile AC charging cable with vehicle connector and infrastructure plug, with protective cap, C-Line black / gray, Type 2, IEC 62196-2, 20 A / 480 V (AC), design line C-Line, cable: 4 m, black, spiraled, mating face: black, handle area: gray

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
- ✓ Material data available in the IMDS (International Material Data System of the automotive industry)
- ✓ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✓ Tested in accordance with selected tests of automotive standards LV124, LV214, LV215-2
- ✓ Tested in accordance with EV Ready 37 requirements
- ✓ Consistent longitudinal water tightness prevents water ingress in the cable



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 299471
GTIN	4055626299471
Weight per Piece (excluding packing)	2,498.000 g
Custom tariff number	85444290
Country of origin	Germany

Technical data

Product definition

Product type	Mobile AC charging cable with vehicle connector and infrastructure plug, with protective cap
Type	C-Line black / gray

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Technical data

Product definition

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

Dimensions

Vehicle connector width	70.00 mm
Vehicle connector height	137.00 mm
Vehicle connector depth	215.90 mm
Infrastructure plug width	58.00 mm
Infrastructure plug height	131.80 mm
Infrastructure plug depth	233.40 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)
	IP54 (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	C-Line
Housing color	black
Mating face color	black

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Technical data

Design

Color handle area	gray
Color protective cap	black
Customer variations	On request

Material

Housing material	Plastic
Material handle area	Soft plastic
Material protective cap	Soft plastic
Material mating face	Plastic
Flammability rating	V0
Material surface of contacts	Ag

Cable

Cable structure	5 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	12.8 mm ±0.4 mm
Type of conductor	spiraled
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 %

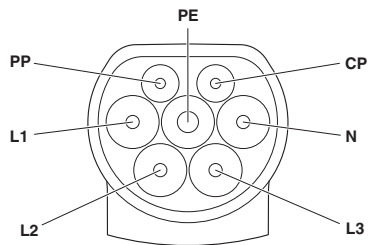
Environmental Product Compliance

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

Drawings

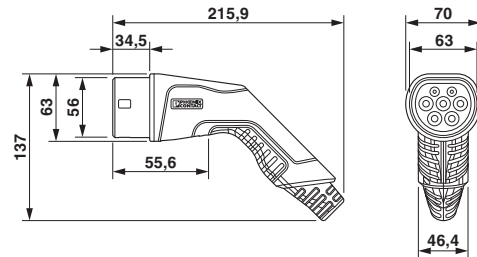
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Connection diagram



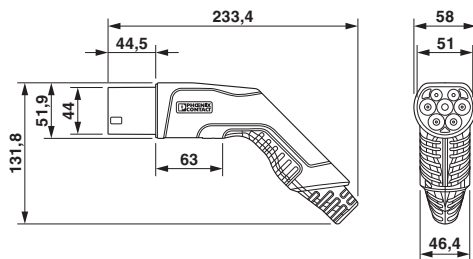
Pin assignment of Infrastructure Plug

Dimensional drawing



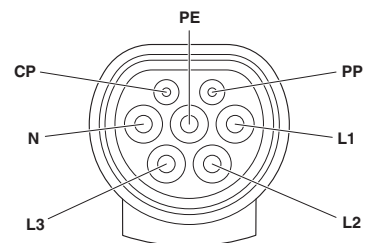
Vehicle connector

Dimensional drawing



Infrastructure plug

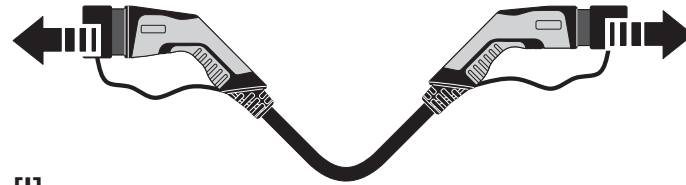
Schematic diagram



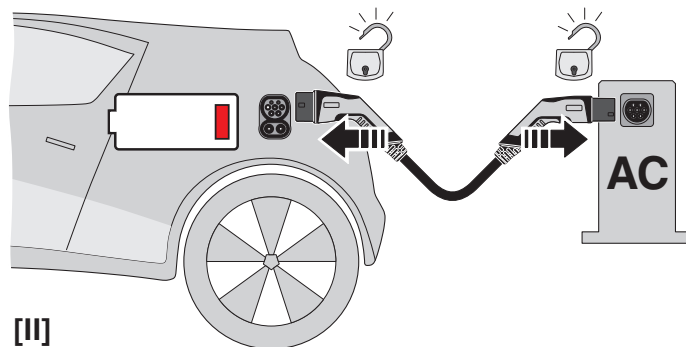
Pin assignment of the Vehicle Connector

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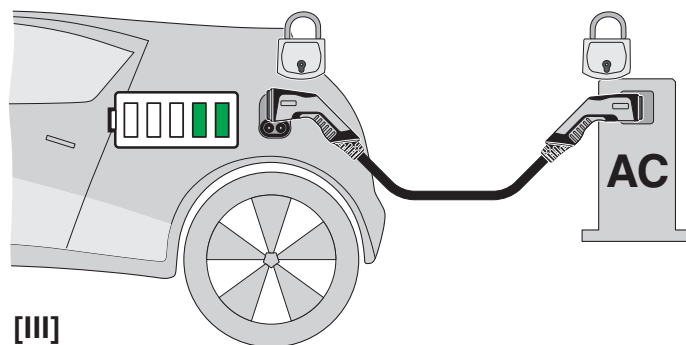
Schematic diagram



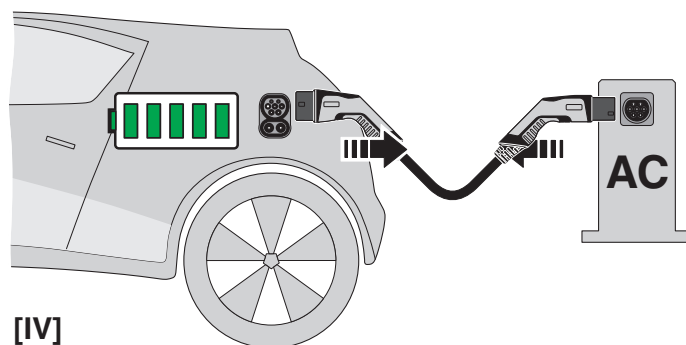
[I]



[II]



[III]



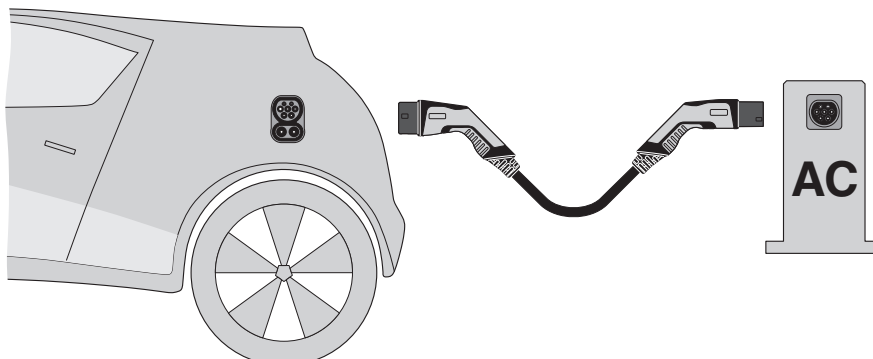
[IV]



[V]

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Schematic diagram



Terminology definition

Classifications

eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 8.0	27449001
eCl@ss 9.0	27144705

ETIM

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

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522

Approvals

Approvals

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IECEE CB Scheme / VDE Zeichengenehmigung

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Approvals

Ex Approvals

Approval details

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-61067
Nominal voltage UN		480 V	
Nominal current IN		20 A	

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40045394
Nominal voltage UN		480 V	
Nominal current IN		20 A	

Accessories

Accessories

Infrastructure socket outlet

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



Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), 12 V Locking actuator, Single wires, length: 0.7 m, Rear panel mounting, Rear protective cover screw connection

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



Infrastructure Socket Outlet for charging electric vehicles with alternating current (AC), compatible with Infrastructure Plugs, Type 2, IEC 62196-2, 20 A / 480 V (AC), 24 V Locking actuator, Single wires, length: 0.7 m, Rear panel mounting, Rear protective cover screw connection

Park position

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Accessories

Park position - EV-T2AC-PARK - 1624148



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

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