AC charging cable - EV-T2M3C-1AC20A-4,0M2,5EHRD00 - 1405194

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AC charging cable, AC charging cable with Vehicle Connector, open cable end, with protective cap, Design line 1, Type 2, IEC 62196-2, 20 A / 250 V (AC), design line D-Line, cable: 4 m, red, spiraled, mating face: gray, handle area: gray

Product Description

AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 Vehicle Inlets, for installation 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 737050
GTIN	4046356737050

Technical data

Product definition

Product type	AC charging cable with Vehicle Connector, open cable end, with protective cap
Type	D-Line
Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case C

Dimensions

Vehicle connector width	60.00 mm
Vehicle connector height	102.90 mm

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Dimensions

Vehicle connector depth	229.60 mm
Conductor length	4 m
Stripping length	45 mm ±10 mm

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	5 kW
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	20 A
Rated voltage for power contacts	250 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
Material mating face	Plastic

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Material

Material surface of contacts	Ag

Cable

Cable structure	3 x 2.5 mm² + 1 x 0.5 mm² (DIN EN 13602, VDE 0295 class 5)
Wiring class	Class 5
External cable diameter	10.5 mm ±0.5 mm
Type of conductor	spiraled
Outer sheath, material	PUR
External sheath, color	red
Minimum bending radius	157.5 mm (15 x diameter)
Coil diameter	57 mm
Block length	0.5 m
Effective length	max. 4 m

Locking

Locking type	No locking option for U-lock

Environmental Product Compliance

	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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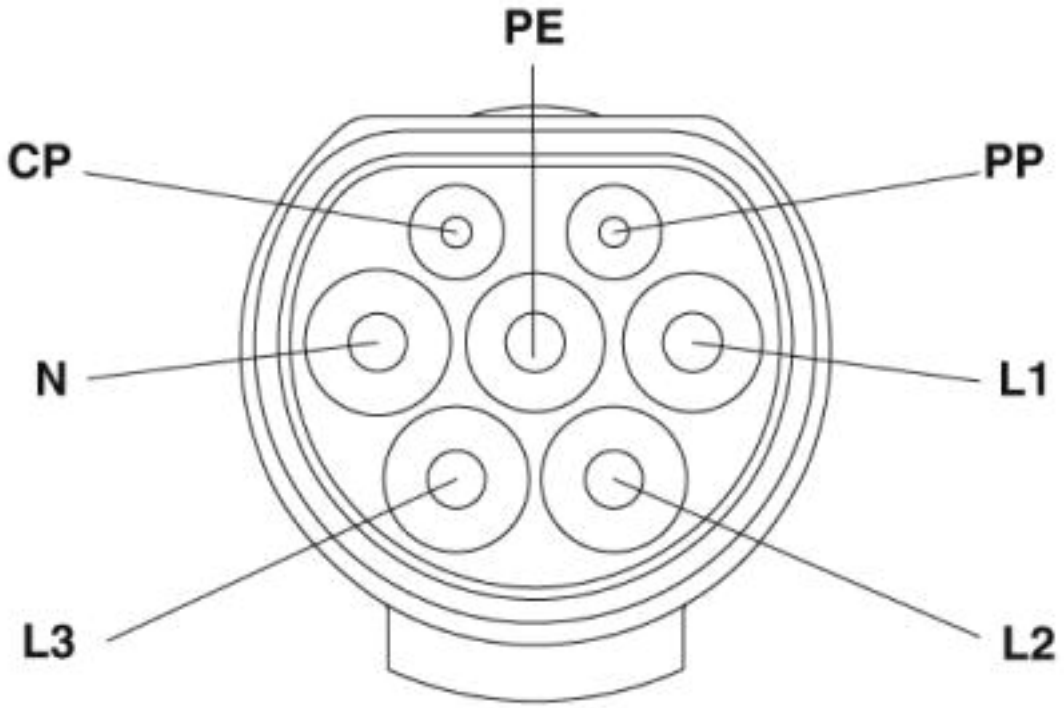
Schematic diagram



Pin assignment of the Vehicle Connector

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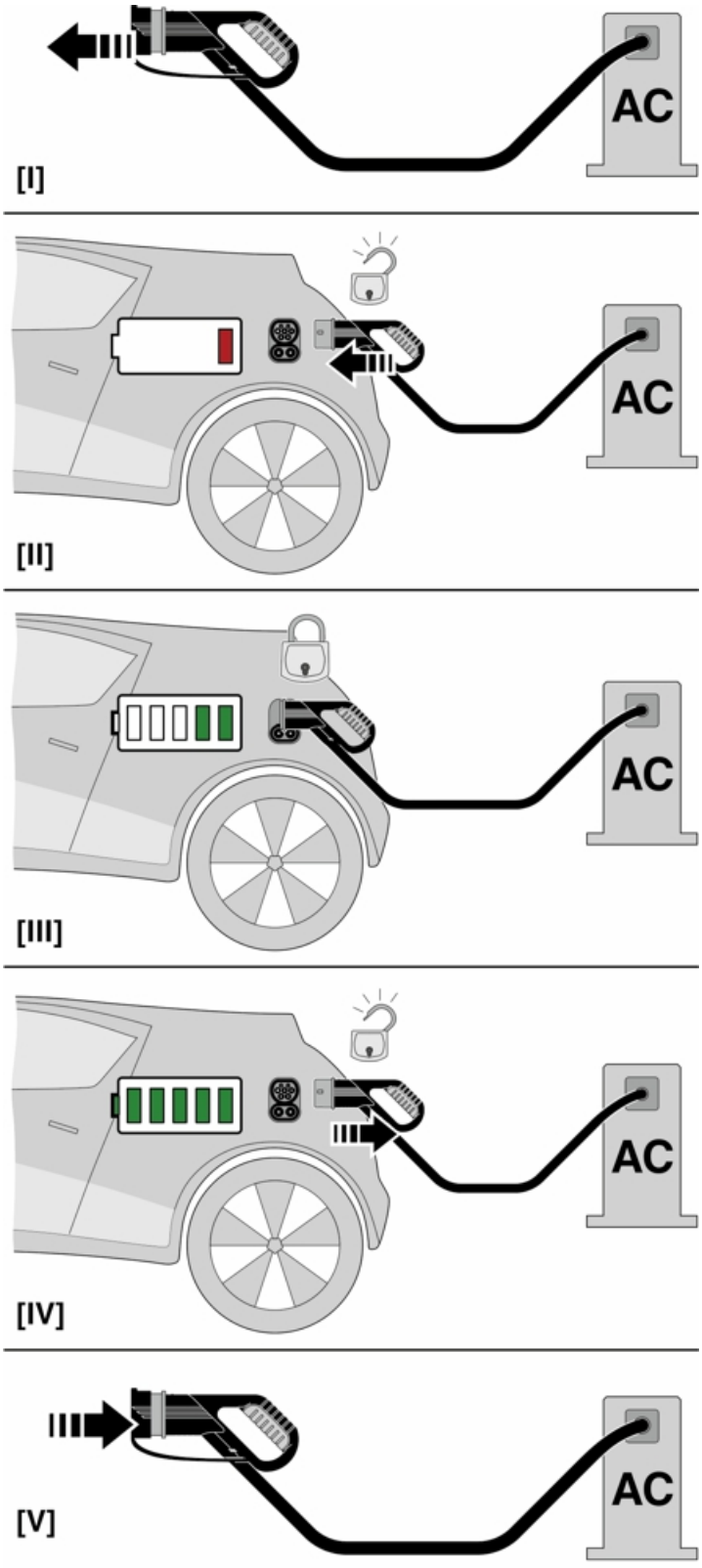
Schematic diagram



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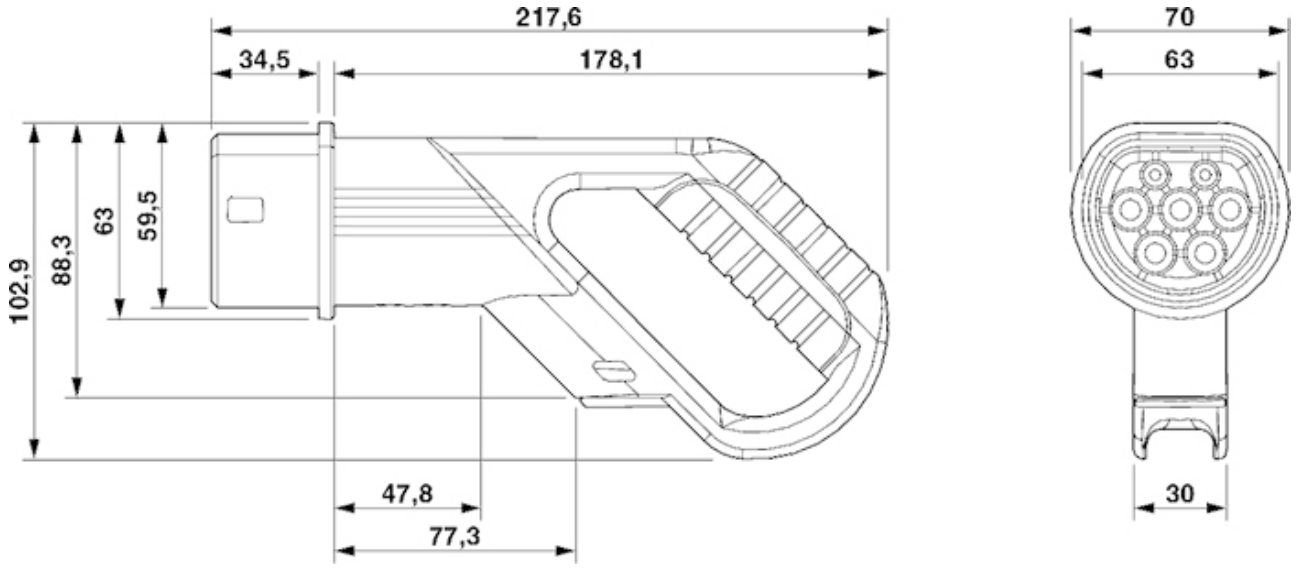
Dimensional drawing



Ensure that the vehicle connector is placed in an appropriate resting position that ensures a minimum protection rating of IP24 in accordance with IEC 61851-1 for the entire time between charging. Use the dimensions of the vehicle connector to create this type of resting position. Detailed specifications can also be found in the download area.

Approvals

Approvals

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VDE Zeichengenehmigung / IECEE CB Scheme

Ex Approvals

Approval details

VDE Zeichengenehmigung		http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40037319

Nominal voltage UN	250 V

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Nominal current IN	20 A
mm²/AWG/kcmil	2.5

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-61387

Nominal voltage UN	250 V
Nominal current IN	20 A

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