DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

DC charging cable with vehicle connector, open cable end, CCS type 2, Combined Charging System, IEC 62196-3, 200 A / 1000 V (DC), design line Standard, cable: 5 m, black, straight, connection profile: black, handle area: gray

Product Description

DC charging cable with Vehicle Connector and open cable end for fast charging of electric vehicles (EV) with direct current (DC) via CCS type 2 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

Why buy this product

- 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
- Integrated temperature sensors for monitoring the temperature at the power contacts

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 950534
GTIN	4046356950534

Technical data

Product definition

Product type	DC charging cable with vehicle connector, open cable end
Standards/regulations	IEC 62196-3
Charging standard	CCS type 2
	Combined Charging System
Charging mode	Mode 4

Dimensions

Vehicle connector width	75.00 mm

DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Technical data

Dimensions

Vehicle connector height	139.00 mm
Vehicle connector depth	267.00 mm
Conductor length	5 m
Stripping length	140 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)
	IP20 (when not plugged in, the required IP24 degree of protection must be ensured by other means, e.g., by a holder, see accessories)

Electrical properties

Maximum charging power	200 kW
Number of power contacts	3 (PE, DC+, DC-)
Rated current of power contacts	200 A
Rated voltage for power contacts	1000 V DC
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 with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121
Resistor coding	1500 Ω (between PE and PP)
Temperature monitoring	2x Pt 1000

Mechanical properties

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

Design

Design line	Standard
Housing color	black
Pin connector pattern color	black
Color handle area	gray
Label	14.1 mm x 44.8 mm (customer logo on request)

Material

Housing material	Plastic
Material handle area	Soft plastic
Material connection profile	Plastic
Flammability rating	V0
Material surface of contacts	Ag

DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Technical data

Cable

Cable structure	2 x 70 mm² + 1 x 35 mm² + 3 x 2 x 0.75 mm²
Wiring standards/regulations	prEN 50620
Wiring class	Class 6
Wiring certifications	VDE-Reg. 8798
External cable diameter	32 mm ±0.2 mm
Type of conductor	straight
Outer sheath, material	HFFR
External sheath, color	black
Minimum bending radius	480 mm (15 x diameter)

Temperature sensors

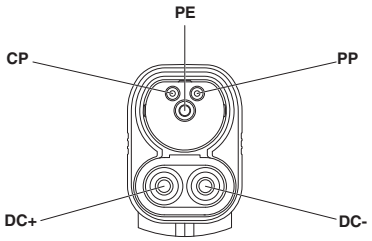
Type of sensor	Pt 1000
Standards/regulations	DIN EN 60751
Recommended measured current	1 mA (1 V at 0°C)
Tolerance at the sensor with the recommended measured current	±1K
Temperature range	-50 °C ... 130 °C
Temperature coefficient (TCR)	3850 ppm/K
Long-term stability (max. R0-Drift)	0.06 % (After 1000 hours at 130°C)
Shutdown temperature	90 °C equivalent to a Pt 1000 value of 1346.5 Ω

Environmental Product Compliance

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

Drawings

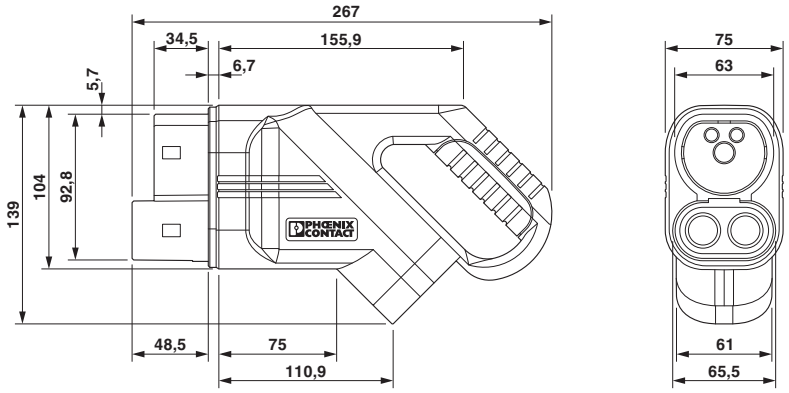
Schematic diagram



Pin assignment of the Vehicle Connector

DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

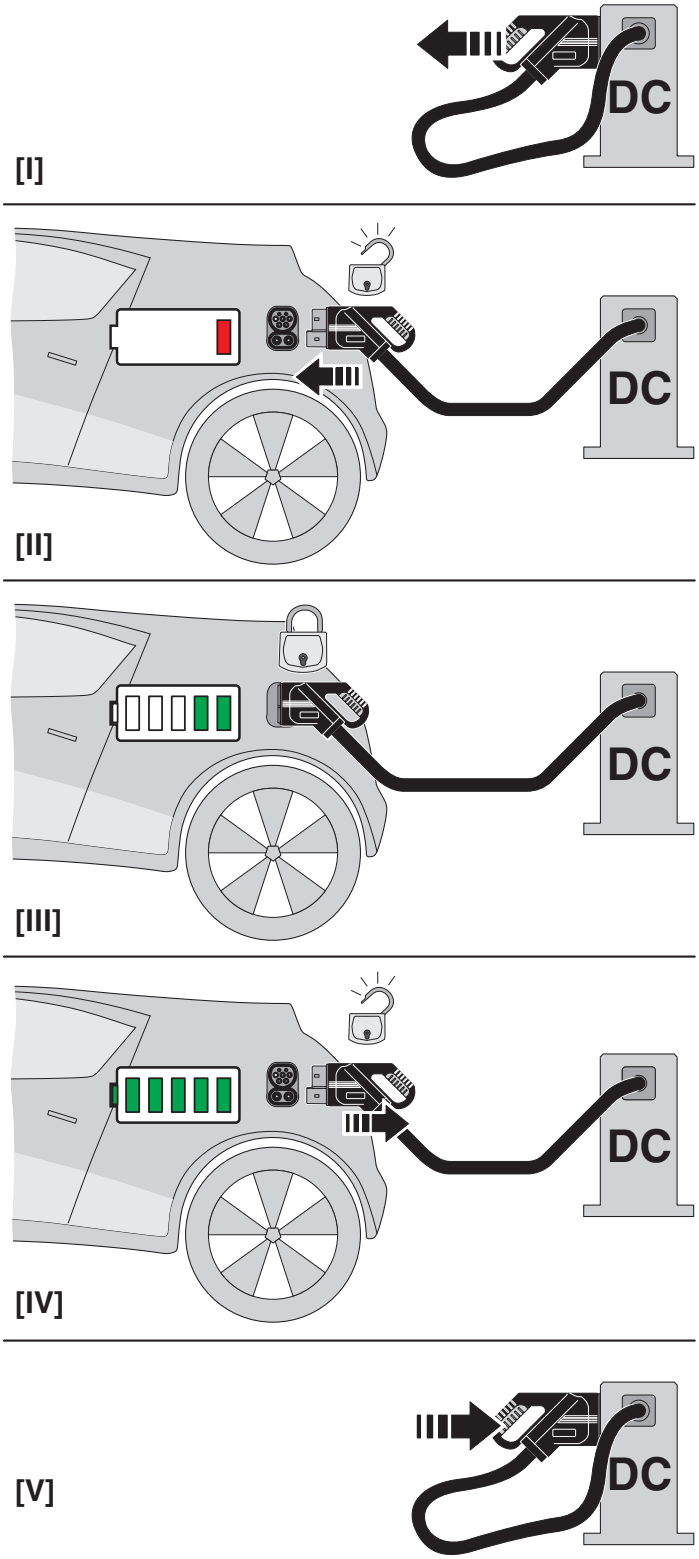
Dimensional drawing



Dimensional drawing of Vehicle Connector

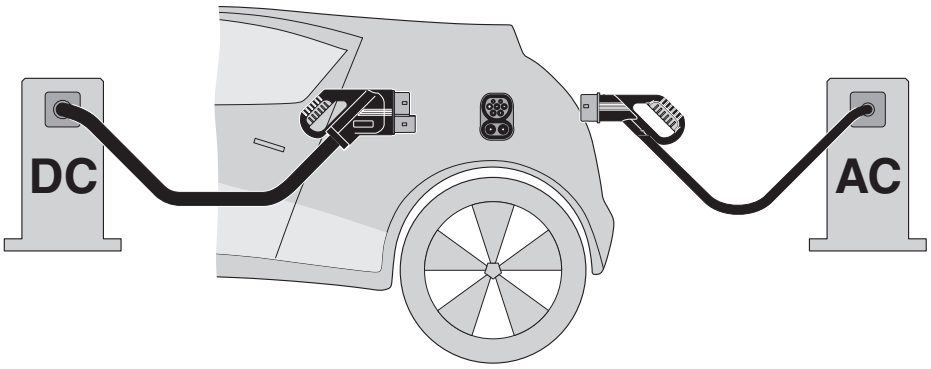
DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Schematic diagram



DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

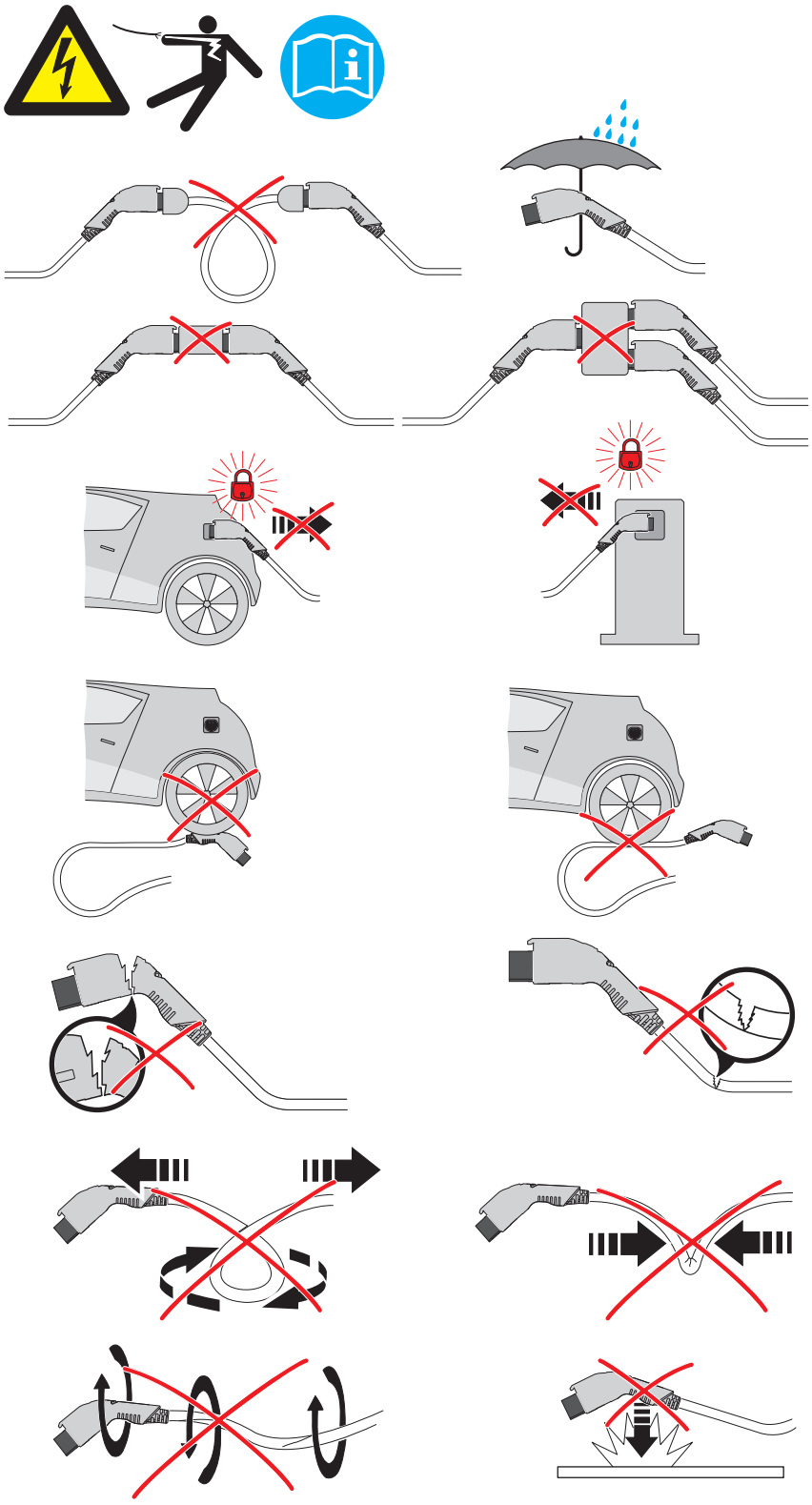
Schematic diagram



The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Schematic diagram



DC charging cable - EV-T2M4CC-DC200A-5,0M70ESBK00 - 1621653

Approvals

Approvals

Approvals

VDE approval of drawings / IECEE CB Scheme

Ex Approvals

Approval details

VDE approval of drawings		http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx	40040872

Nominal current IN	200 A
Nominal voltage UN	1000 V

IECEE CB Scheme		http://www.iecee.org/	DE1-59626

Nominal current IN	200 A
Nominal voltage UN	1000 V

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com