

## DC charging cable - EV-T2M4CC-DC60A-4,5M16ESBK00 - 1618306

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DC charging cable with Vehicle Connector and open cable end, CCS type 2, Combined Charging System, IEC 62196-3, 60 A / 850 V (DC), Cable data: 4.5 m, black, straight

### Product Description

DC charging cable, with Vehicle Connector and open cable end for fast charging electric vehicles with direct current (DC) via a CCS type 2 Vehicle Inlet, for installation at charging stations (EVSE)



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 912198
Weight per Piece (excluding packing)	4040.0 g
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Conductor length	4.5 m
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#### General

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

#### Technical properties

Charging power	51 kVA
Rated current for power contacts	60 A
Rated voltage for power contacts	850 V DC
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC

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## Technical data

### Technical properties

Type of signal transmission	Pulse width modulation
Temperature monitoring	2x Pt 1000
Number of power contacts	3 (PE, DC+, DC-)
Number of signal contacts	2 (CP, PP)
Connection method	Crimp connection, cannot be separated
Contact material	Cu
Contact surface material	Ag
Resistor coding	1500 $\Omega$ (between PE and PP)
Insertion force	< 100 N
Withdrawal force	< 100 N
Insertion/withdrawal cycles	> 10000
Ambient temperature (operation)	-30 °C ... 50 °C (Operation)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Storage)
Altitude difference for area of application	5000 m (above sea level)
Degree of protection	IP44 (plugged in)
	IP20 (not plugged in, IP24 should be ensured by the charging station)
Label	14.1 mm x 44.8 mm (customer logo possible)

### Cable

Cable structure	3 x 16 mm <sup>2</sup> + 3 x 2 x 0.75 mm <sup>2</sup> (EN 60228 class 6)
External cable diameter	20 mm $\pm$ 0.2 mm
Type of conductor	straight
Outer sheath, material	HFFR
External sheath, color	black
Minimum bending radius	100 mm (5 x diameter)

### Temperature monitoring

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)

## Classifications

### eCl@ss

eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 8.0	27440590

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### Classifications

#### ETIM

ETIM 4.0	EC002839
ETIM 5.0	EC002839

### Accessories

#### Accessories

#### Mounting material

Holder - EV-T2MBI-PARK - 1621667



Park position for charging stations as bracket for Vehicle Connector, CCS type 2, IEC 62196-3

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### Vehicle inlet

Test accessories - EV-T2MBIE24-1ACDC-INFRA - 1410506



Special Vehicle Inlet for charging station tests, CCS type 2, IEC 62196-3, 125 A / 850 V (DC), Single wires, Length: 2 m

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Test accessories - EV-T2MBIE12-1ACDC-INFRA - 1622038



Special Vehicle Inlet for charging station tests, CCS type 2, IEC 62196-3, 125 A / 850 V (DC), Single wires, Length: 2 m

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Test accessories - EV-T2MBIE24-1ACDC-INFRA6,0 - 1623322



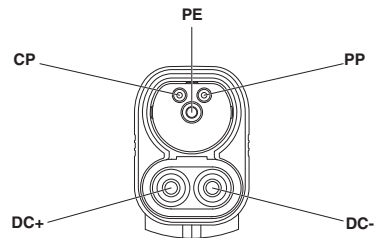
Special Vehicle Inlet for charging station tests, CCS type 2, IEC 62196-3, 125 A / 850 V (DC), Single wires, Length: 6 m

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### Drawings

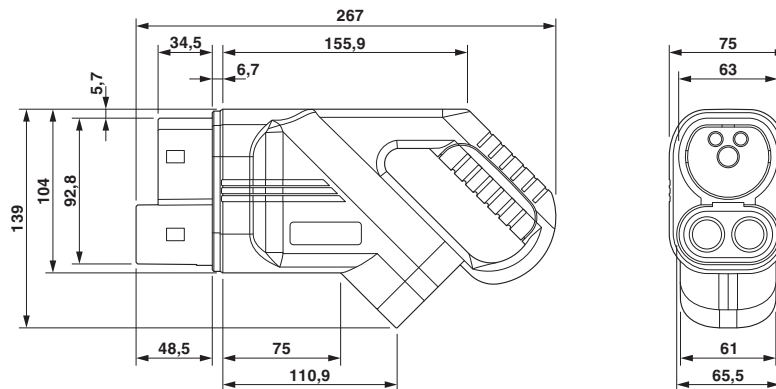
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Schematic diagram



Pin assignment of the Vehicle Connector

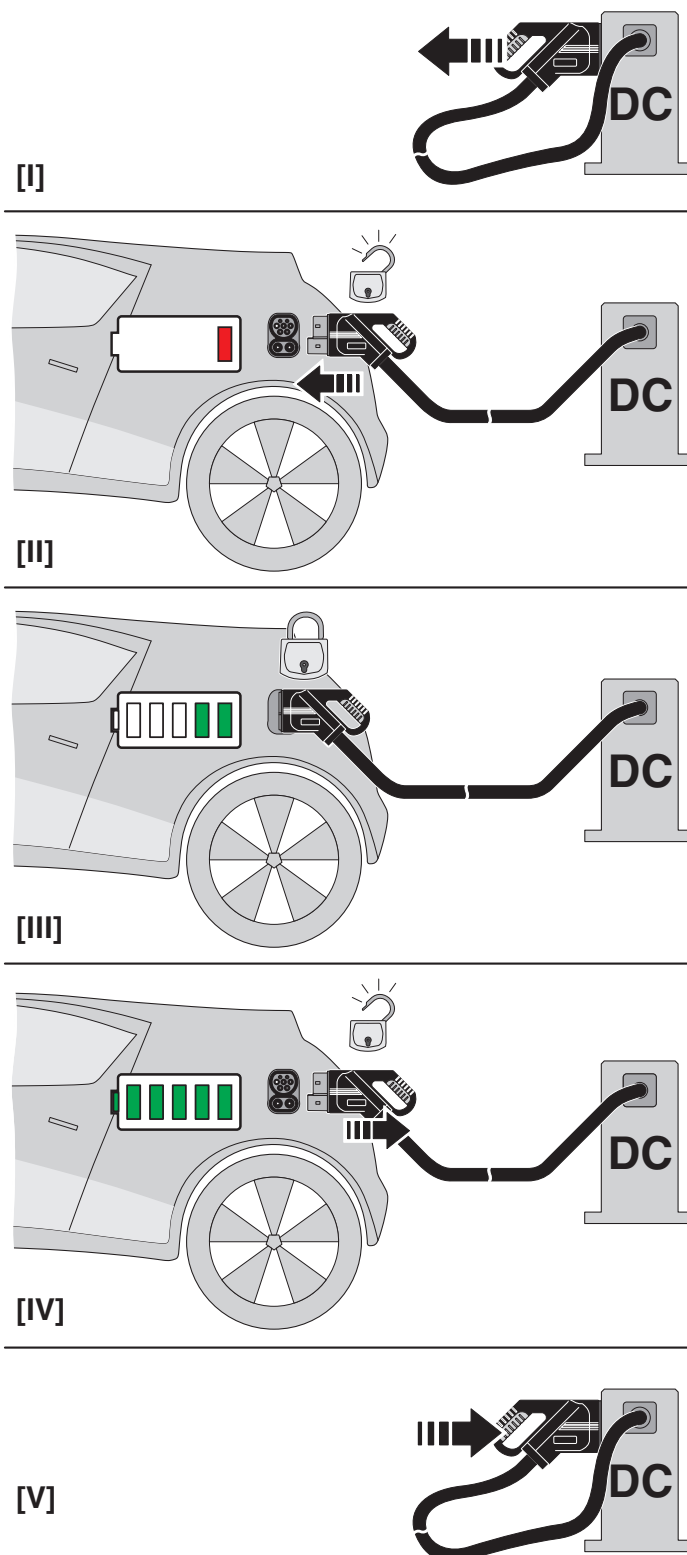
Dimensional drawing



Dimensional drawing of Vehicle Connector

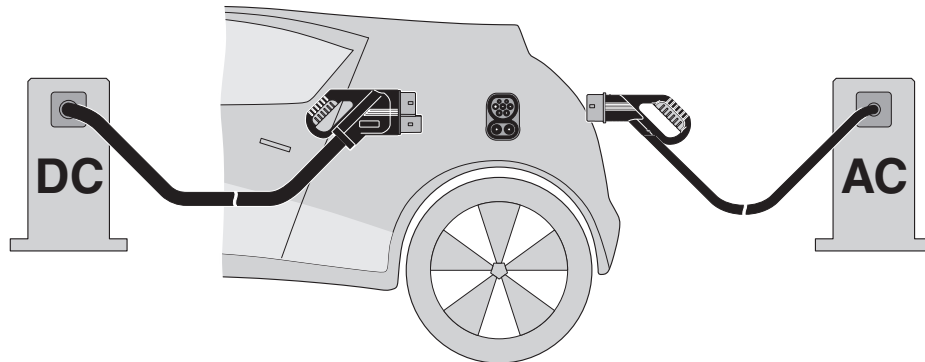
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Schematic diagram



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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.