

EV-T2M4CC-DC125A-8,0M50ESBK00 - DC charging cable



1622180

<https://www.phoenixcontact.com/us/products/1622180>

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CHARX connect, CCS type 2, DC charging cable, with vehicle charging connector and open cable end, cable: 8 m, black, straight, no liquid cooling, housing: black, gray, PHOENIX CONTACT logo, NOTE: Cable management may be required., IEC 62196-3, for charging electric vehicles (EV) with direct current (DC)

Product description

DC charging cable with vehicle charging connector and free cable end for fast charging of electric vehicles (EV) with direct current (DC) via CCS type 2 vehicle charging 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
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- Integrated temperature sensors for monitoring the temperature at the power contacts

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1622180 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | XWBAAD |
| GTIN | 4055626016139 |
| Weight per piece (including packing) | 14.47 kg |
| Weight per piece (excluding packing) | 13.87 kg |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------|---|
| Product type | DC charging cable |
| Product family | CHARX connect |
| Type | DC charging cable with vehicle charging connector and open cable end |
| Design | no liquid cooling |
| Charging standard | CCS type 2 |
| Charging mode | Mode 4 |
| Affixed logo | PHOENIX CONTACT logo |

Electrical properties

Charging power and current (DC charging)

| | |
|--------------------------|----------|
| Type of charging current | DC |
| Charging current | 125 A DC |
| Charging power | 125 kW |
| Rated voltage | 1000 V |

Temperature sensors (Pt 1000)

| | |
|------------------------------|--|
| Sensor type | Pt 1000 |
| Standards/regulations | DIN EN 60751 |
| Attachment point | Sensor for the DC contacts |
| Switch-off temperature | 90 °C ±1 K (equivalent to a Pt 1000 value of 1346.5 Ω) |
| Long-term stability | 0.06 % (after 1000 hours at 130 °C) |
| Recommended measured current | 1 mA (1 V at 0°C) |
| Coefficient | 3850 ppm/K |
| Ambient temperature | -50 °C ... 130 °C (Operation) |

Material specifications

| | |
|------------------------|--------------|
| Color (Housing) | black (9005) |
| Color (Handle area) | gray (7042) |
| Color (Mating face) | black (9005) |
| Color (Protective cap) | black (9005) |
| Color (Cable) | black (9005) |

Cable/line

| | |
|------------------------------|-------------------------|
| Cable length | 8 m |
| Wiring standards/regulations | prEN 50620/DIN EN 50620 |
| Wiring certifications | VDE-Reg. |
| Cable weight | max. 1620.00 kg/km |
| Cable type | Class 6 |
| Cable type | straight |

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| | |
|--------------------------------|--|
| Cable structure | 2 x 50 mm ² + 1 x 25 mm ² + 3 x 2 x 0.75 mm ² |
| External cable diameter | 28.10 mm ±0.5 mm |
| Outer sheath, material | TPE-U |
| Stripping length of the sheath | 140 mm ±10 mm |
| Stripping length | 140 mm ±10 mm |
| Cable resistance | ≤ 0.00039 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius | min. 281 mm (10x Ø) |
| Cable length | 8 m |
| Stripping length | 140 mm ±10 mm |
| External cable diameter | 28.10 mm ±0.5 mm |
| Cable type | Class 6 |
| Wiring certifications | VDE-Reg. |
| Wiring standards/regulations | prEN 50620/DIN EN 50620 |
| Cable resistance | ≤ 0.00039 Ω/m (based on a power core, at an ambient temperature of 20°C) |

Standards and regulations

Connection in accordance with standard

| | |
|-------------------------------------|---|
| Normative cable length restrictions | NOTE: Cable management may be required. |
| | Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1). |

Standards

| | |
|-----------------------|-------------|
| Standards/regulations | IEC 62196-3 |
|-----------------------|-------------|

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Drawings



Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

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Schematic diagram



Operating instructions

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.

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Schematic diagram



Pin assignment of the Vehicle Connector

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Schematic diagram



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Schematic diagram



The resting position must be installed in the charging station such that the user cannot hang up the vehicle connector upside down (90° to 270°). However, positions rotated upward (45°) or downward (315°) are options for a resting position.

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Classifications

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121522 |
|-------------|----------|

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Environmental product compliance

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-10 An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
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EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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