

# EV-T1G2CC-DC80A-6,0M6ASBK11 - DC charging cable



1236561

<https://www.phoenixcontact.com/gb/products/1236561>

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CHARX connect compact, CCS type 1, DC charging cable, 80 A permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 6 m, black, straight, with connected CS contact, with analog temperature sensors, no liquid cooling, PHOENIX CONTACT logo, SAE J1772, 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 1 vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

## Your advantages

- Complete product range
- The right charging cable for every application, from the carport to the charging park
- Convenient handling due to the ergonomic design
- Available with your logo on request - for consistent branding of your charging station
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1236561       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | XWBMA B       |
| Product key                          | XWBMA B       |
| GTIN                                 | 4063151342081 |
| Weight per piece (including packing) | 6,627 g       |
| Weight per piece (excluding packing) | 160 g         |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Product type      | DC charging cable                                  |
| Product family    | CHARX connect compact                              |
| Type              | DC charging cable                                  |
|                   | with vehicle charging connector and open cable end |
| Design            | with connected CS contact                          |
|                   | with analog temperature sensors                    |
|                   | no liquid cooling                                  |
| Charging standard | CCS type 1                                         |
| Charging mode     | Mode 4                                             |
|                   | DC level 3                                         |
| Affixed logo      | PHOENIX CONTACT logo                               |
| Label             | 8.9 mm x 28.9 mm (customer logo on request)        |

### Electrical properties

|                        |            |
|------------------------|------------|
| Temperature monitoring | 2x Pt 1000 |
|------------------------|------------|

#### Charging power and current (DC charging)

|                          |         |
|--------------------------|---------|
| Type of charging current | DC      |
| Charging current         | 80 A DC |
| Charging power           | 80 kW   |
| Rated voltage            | 1000 V  |

#### Pin assignment (Power contacts)

|                               |                                          |
|-------------------------------|------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (PE, DC+, DC-)                         |
| Rated voltage                 | 1000 V DC                                |
| Rated current                 | 80 A (up to 55 °C)                       |

#### Pin assignment (Signal contacts)

|                               |                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Note on the connection method | Crimp connection, cannot be disconnected                                                                        |
| Type of signal transmission   | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
| Number                        | 2 (CP, CS)                                                                                                      |
| Rated voltage                 | 30 V AC                                                                                                         |
| Rated current                 | 2 A                                                                                                             |
| Coding                        | 480 Ω (Lever actuated)                                                                                          |
|                               | 150 Ω (Lever not actuated)                                                                                      |

#### Temperature sensors (Pt 1000)

|                       |                            |
|-----------------------|----------------------------|
| Sensor type           | Pt 1000                    |
| Standards/regulations | DIN EN 60751               |
| Attachment point      | Sensor for the DC contacts |

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|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| 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)                          |

## Dimensions

### Vehicle charging connector

|        |          |
|--------|----------|
| Width  | 68.5 mm  |
| Height | 156.6 mm |
| Depth  | 239 mm   |

## Material specifications

|                                        |                                                                      |
|----------------------------------------|----------------------------------------------------------------------|
| Color (Housing)                        | black (9005)                                                         |
| Color (Handle area)                    | black (9005)                                                         |
| Color (Mating face)                    | black (9005)                                                         |
| Color (Protective cap)                 | black (9005)                                                         |
| Color (Cable)                          | black (9005)                                                         |
| Material (Vehicle charging connector)  | Plastic                                                              |
| Material (Cable outer sheath)          | TPE                                                                  |
| Material (Contact surface)             | Silver                                                               |
| Note                                   | The color appearance and gloss level of the charging cable may vary. |
| Flammability rating according to UL 94 | V0 (Mating face)                                                     |

## Cable/line

|                                |                                                                         |
|--------------------------------|-------------------------------------------------------------------------|
| Cable length                   | 6 m ±45 mm                                                              |
| Wiring standards/regulations   | UL 2263                                                                 |
| Cable weight                   | max. 915.00 kg/km                                                       |
| Cable type                     | straight                                                                |
| Cable structure                | 3 x 6 AWG + 2 x 3 x 18 AWG                                              |
| External cable diameter        | 27.00 mm ±0.4 mm                                                        |
| Outer sheath, material         | TPE                                                                     |
| Stripping length of the sheath | 140 mm ±10 mm                                                           |
| Stripping length               | 140 mm ±10 mm                                                           |
| Cable resistance               | ≤ 0.0014 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 270 mm (10x Ø)                                                     |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 75 N  |
| Withdrawal force            | < 75 N  |

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## Environmental and real-life conditions

### Ambient conditions

|                                                   |                                                                                                                                                                                                    |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection (Vehicle charging connector) | IP44 (The degree of protection is only ensured in the ready and plugged-in state when both plug-in components are original products from Phoenix Contact or suitable standard-compliant products.) |
| Ambient temperature (operation)                   | -30 °C ... 55 °C                                                                                                                                                                                   |
| Ambient temperature (storage/transport)           | -40 °C ... 80 °C                                                                                                                                                                                   |
| Altitude                                          | 5000 m (above sea level)                                                                                                                                                                           |

## Standards and regulations

### Standards

|                       |             |
|-----------------------|-------------|
| Standards/regulations | SAE J1772   |
|                       | IEC 62196-3 |

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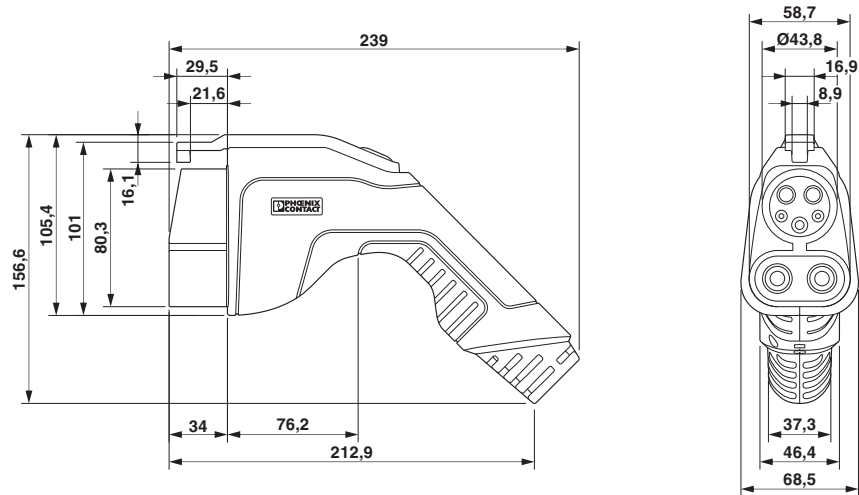


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## Drawings

Dimensional drawing



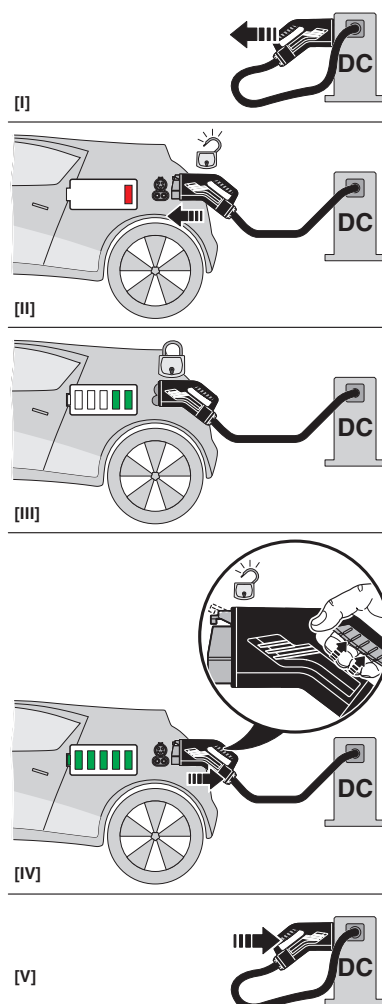
Dimensional drawing

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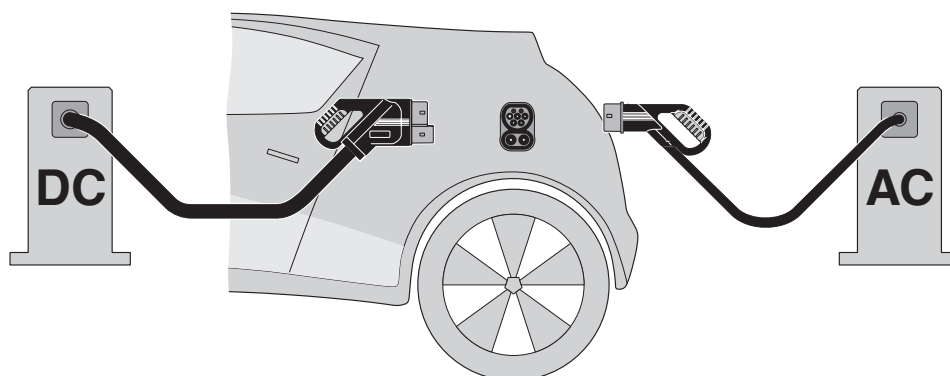
<https://www.phoenixcontact.com/gb/products/1236561>

Schematic diagram



## Operating instructions

Schematic diagram



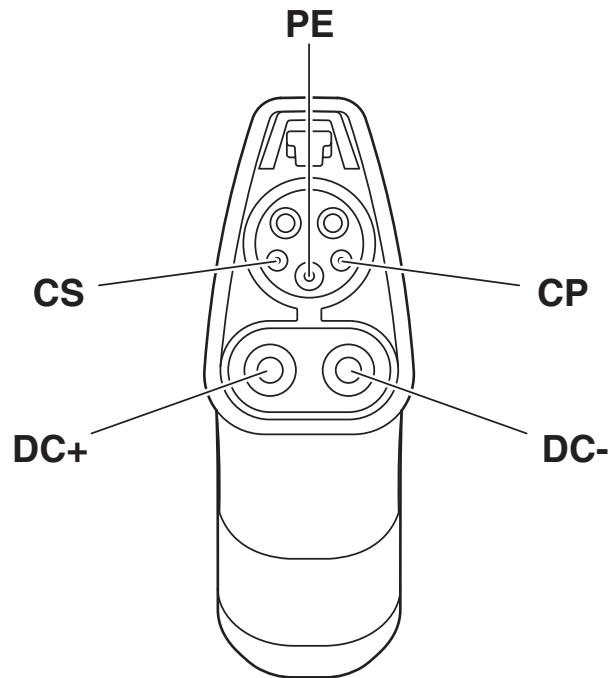
The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

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Schematic diagram



Pin assignment of the Vehicle Connector

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1236561>

|                                                                                                                                            |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cULus Recognized</b><br>Approval ID: E473195-20160308 |                       |                       |                   |                             |
|                                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                            | 1000 V                | 80 A                  | - 1               | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27144705 |
| ECLASS-15.0 | 27144705 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | 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. |

### EU REACH SVHC

|                                     |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                                        |
|                                     | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |
| SCIP                                | 08a6e7b4-0844-49e2-a29e-3dac10582e39                        |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 62.36 kg CO2e |
|---------|---------------|

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