

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

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 documentation. Our general terms of use for downloads are valid.



CHARX connect comfort, Type 2, AC charging cable, 20 A permanent, 250 V AC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with protective cap, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets

## Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

## Your advantages

- Complete product range
- Convenient handling due to the ergonomic, triple award-winning design
- Available with your logo on request - for consistent branding of your charging station
- Longitudinal water tightness reliably prevents water ingress
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- Tested in accordance with automotive standards LV124, LV214, and LV215-2
- Tested in accordance with EV Ready 37 requirements
- Laser-marked mating face in accordance with DIN EN 17186

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1627354       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBDBA        |
| GTIN                                 | 4055626316499 |
| Weight per piece (including packing) | 1,168 g       |
| Weight per piece (excluding packing) | 1,265 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

## Technical data

### Product properties

|                     |   |
|---------------------|---|
| Product type        | AC charging cable   |
| Product family      | CHARX connect comfort   |
| Type                | AC charging cable<br>with vehicle charging connector and open cable end |
| Design              | with protective cap   |
| Charging standard   | Type 2  |
| Charging mode       | Mode 3, Case B  |
| Affixed logo        | PHOENIX CONTACT logo  |
| Customer variations | On request  |

### Electrical properties

#### Charging power and current (AC charging, 1-phase)

|                          |                   |
|--------------------------|-------------------|
| Type of charging current | AC single-phase   |
| Charging current         | 20 A AC (1-phase) |
| Charging power           | 5 kW (1-phase)    |
| Operating voltage        | typ. 230 V AC     |

#### Pin assignment (Power contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number                        | 3 (L1, N, PE)                            |
| Rated voltage                 | 250 V AC                                 |
| Rated current                 | 20 A                                     |

#### Pin assignment (Signal contacts)

|                               |  |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Type of signal transmission   | Pulse width modulation                   |
| Number                        | 2 (CP, PP)                               |
| Rated voltage                 | 30 V AC                                  |
| Rated current                 | 2 A                                      |
| Coding                        | 680 $\Omega$ (between PE and PP)         |

### Dimensions

#### Vehicle charging connector

Dimensional drawing



# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

|        |  |
|--------|--|
|        | 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. |
| Width  | 70 mm  |
| Height | 137 mm   |
| Depth  | 215.9 mm   |

## 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)   |
| Material (Vehicle charging connector) | Plastic  |
| Material (Cable outer sheath)         | TPE-U  |
| Material (Contact surface)            | Silver   |
| Note                                  | The color appearance and gloss level of the charging cable may vary. |

## Cable/line

|                                |  |
|--------------------------------|--|
| Cable length                   | 5 m  |
| Wiring standards/regulations   | prEN 50620/DIN EN 50620  |
| Wiring certifications          | VDE  |
| Cable weight                   | max. 163.00 kg/km  |
| Cable type                     | Class 5  |
| Cable type                     | straight   |
| Cable structure                | 3 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                        |
| External cable diameter        | 10.20 mm ±0.3 mm   |
| Outer sheath, material         | TPE-U  |
| Stripping length of the sheath | 70 mm ±5 mm  |
| Stripping length               | 70 mm ±5 mm  |
| Cable resistance               | ≤ 0.00798 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 153 mm (15x diameter)   |

## Mechanical properties

### Mechanical data

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

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection (Vehicle charging inlet)       | 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) |
| Degree of protection (Infrastructure charging plug) | 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) |
| Degree of protection (Protective cap)               | IP54   |
| Ambient temperature (operation)                     | -40 °C ... 50 °C   |
| Ambient temperature (storage/transport)             | -40 °C ... 80 °C   |
| Altitude  | 5000 m (above sea level)   |

### Standards and regulations

|                          |                                   |
|--------------------------|-----------------------------------|
| Standards/specifications | IEC 62196-2                       |
| Note                     | Compliant with AFIR - EU 2025/656 |

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

## Drawings

Dimensional drawing



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.

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable

1627354

<https://www.phoenixcontact.com/us/products/1627354>

Schematic diagram



Operating instructions

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable

1627354

<https://www.phoenixcontact.com/us/products/1627354>

Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable




1627354

<https://www.phoenixcontact.com/us/products/1627354>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1627354>

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-65898/M1 |  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|---|--|-----------------------|-----------------------|-------------------|-----------------------------|
| keine   |  |                       |                       |                   |                             |
|   |  | 250 V                 | 20 A                  | -                 | -                           |

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# EV-T2G3C-1AC20A-5,0M2,5ESBK01 - AC charging cable



1627354

<https://www.phoenixcontact.com/us/products/1627354>

## 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)                 |
| SCIP                                | 9d30763f-5a4b-493f-887b-c0d1fd1f8d81 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 30.77 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)