

EV-T2G3C-3AC20A-4,0M2,5ESBK01 - AC charging cable



1623504

<https://www.phoenixcontact.com/us/products/1623504>

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CHARX connect comfort, Type 2, AC charging cable, 20 A permanent, 480 V AC, with vehicle charging connector and open cable end, cable: 4 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 | 1623504 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | XWBDBC |
| GTIN | 4055626177854 |
| Weight per piece (including packing) | 1,446 g |
| Weight per piece (excluding packing) | 1,446 g |
| Country of origin | PL |

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Technical data

Product properties

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

Electrical properties

Charging power and current (AC charging, 3-phase)

| | |
|--------------------------|--------------------|
| Type of charging current | AC 3-phase |
| Charging current | 20 A AC (3-phase) |
| Charging power | 16.63 kW (3-phase) |
| Operating voltage | typ. 400 V AC |

Pin assignment (Power contacts)

| | |
|-------------------------------|--|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Number | 5 (L1, L2, L3, N, PE) |
| Rated voltage | 480 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 Ω (between PE and PP) |

Dimensions

Vehicle charging connector

Dimensional drawing



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| | |
|--------|--|
| | 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 | 4 m |
| Wiring standards/regulations | prEN 50620/DIN EN 50620 |
| Wiring certifications | VDE |
| Cable weight | max. 250.00 kg/km |
| Cable type | Class 5 |
| Cable type | straight |
| Cable structure | 5 x 2.5 mm ² + 1 x 0.5 mm ² |
| External cable diameter | 12.80 mm ±0.4 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. 192 mm (15x diameter) |

Mechanical properties

Mechanical data

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

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Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection (Vehicle charging connector) | 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 |

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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.

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Schematic diagram



Operating instructions

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Schematic diagram



Pin assignment of the Vehicle Connector

Schematic diagram



Terminology definition

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1623504>

|  IECEE CB Scheme Approval ID: DE1-65898/M1 | | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|---|--|-----------------------|-----------------------|-------------------|-----------------------------|
| keine | | 480 V | 20 A | - | - |

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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) |
| SCIP | fd51d220-7615-4e4e-b5fb-533e545c3a93 |

EF3.1 Climate Change

| | |
|---------|------------|
| CO2e kg | 31 kg CO2e |
|---------|------------|

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