

AC charging cable - EV-T2G3PC-3AC32A-4,0M6,0EHBK01 - 1627136

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CHARX connect, Mobile AC charging cable with vehicle charging connector and infrastructure charging plug, with protective caps, Housing color black-gray, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 32 A / 480 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 4 m, black, spiraled

Product Description


Mobile AC charging cable with Vehicle Connector and Infrastructure plug for charging electric vehicles (EV) with alternating current (AC), via type 2 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets 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



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 0 5 5 6 2 6 2 9 9 4 8 8 |
| GTIN | 4055626299488 |
| Weight per Piece (excluding packing) | 4,489.000 g |
| Weight per piece (including packing) | 4,590.000 g |
| Custom tariff number | 85444290 |
| Country of origin | Poland |
| Sales Key | Q1 - Electro Mobility |
| Note | Made to Order (non-returnable) |

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Technical data

Product definition

| | |
|-----------------------|--|
| Type | Mobile AC charging cable |
| | with vehicle charging connector and infrastructure charging plug |
| | with protective caps |
| | Housing color black-gray |
| Application | for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets |
| | compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE) |
| Affixed logo | “PHOENIX CONTACT” logo |
| Design | C-Line |
| Standards/regulations | IEC 62196-2 |
| Charging standard | Type 2 |
| Charging mode | Mode 3, Case B |

Dimensions

| | |
|------------------|---|
| Height | 137 mm (Vehicle charging connector) |
| | 131.8 mm (Infrastructure charging plug) |
| Width | 70 mm (Vehicle charging connector) |
| | 58 mm (Infrastructure charging plug) |
| Depth | 215.9 mm (Vehicle charging connector) |
| | 233.4 mm (Infrastructure charging plug) |
| Conductor length | 4 m |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -30 °C ... 50 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Max. altitude | 5000 m (above sea level) |
| Degree of protection | 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) |
| | IP54 (Protective cap) |

Electrical properties

| | |
|------------------------------------|--|
| Charging power (nominal operation) | 26.6 kW |
| Number of phases | 3 |
| Number of power contacts | 5 (L1, L2, L3, N, PE) |
| Rated current of power contacts | 32 A |
| Rated voltage for power contacts | 480 V AC |
| Number of signal contacts | 2 (CP, PP) |
| Rated current for signal contacts | 2 A |
| Rated voltage for signal contacts | 30 V AC |
| Type of signal transmission | Pulse width modulation |
| Note on the connection method | Crimp connection, cannot be disconnected |

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Technical data

Electrical properties

| | |
|-----------------|---------------------------|
| Resistor coding | 220 Ω (between PE and PP) |
|-----------------|---------------------------|

Mechanical properties

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

Design

| | |
|----------------------|------------|
| Design line | C-Line |
| Housing color | black |
| Mating face color | black |
| Color handle area | gray |
| Color protective cap | black |
| Customer variations | On request |

Material

| | |
|------------------------------|--------------|
| Housing material | Plastic |
| Material handle area | Soft plastic |
| Material protective cap | Soft plastic |
| Material mating face | Plastic |
| Flammability rating | V0 |
| Material surface of contacts | Ag |

Cable

| | |
|------------------------------|---|
| Cable structure | 5 x 6.0 mm ² + 1 x 0.5 mm ² |
| Wiring standards/regulations | prEN 50620 / DIN EN 50620 |
| Wiring class | Class 5 |
| Wiring certifications | VDE |
| External cable diameter | 17 mm ±0.4 mm |
| Type of conductor | spiraled |
| Cable resistance | ≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Outer sheath, material | TPE-U |
| External sheath, color | black |
| Minimum bending radius | 102 mm (6x diameter) |
| Coil diameter | 80 mm ±10 % |
| Block length | 0.63 m ±10 % |
| Effective length | max. 4 m ±5 % |

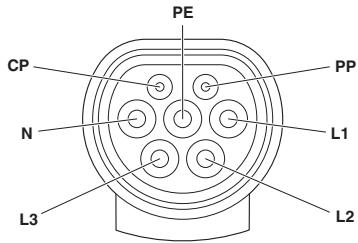
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 10; |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

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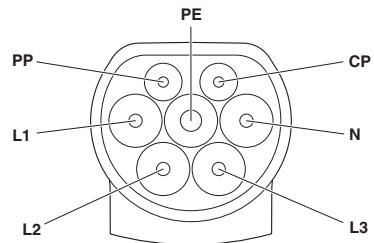
Drawings

Schematic diagram



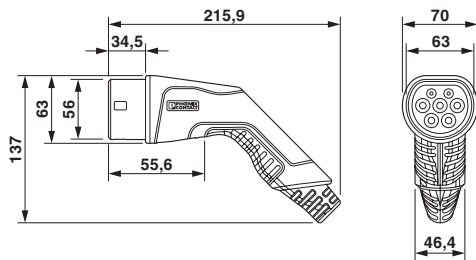
Pin assignment of the Vehicle Connector

Connection diagram



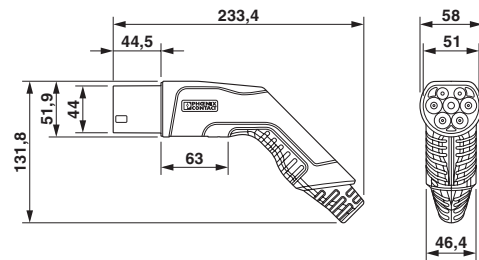
Pin assignment of Infrastructure Plug

Dimensional drawing



Vehicle connector

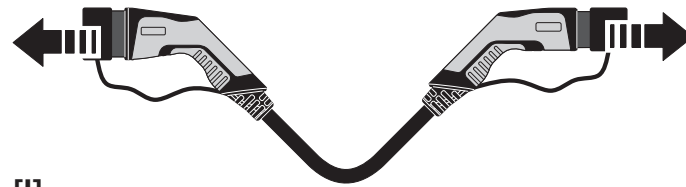
Dimensional drawing



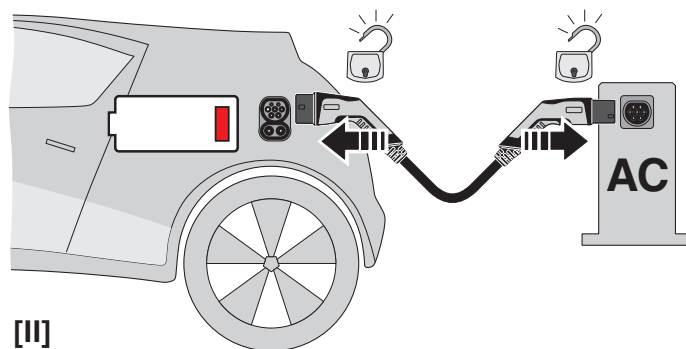
Infrastructure plug

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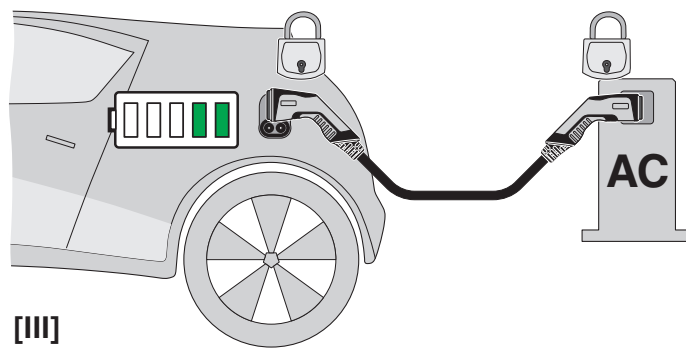
Schematic diagram



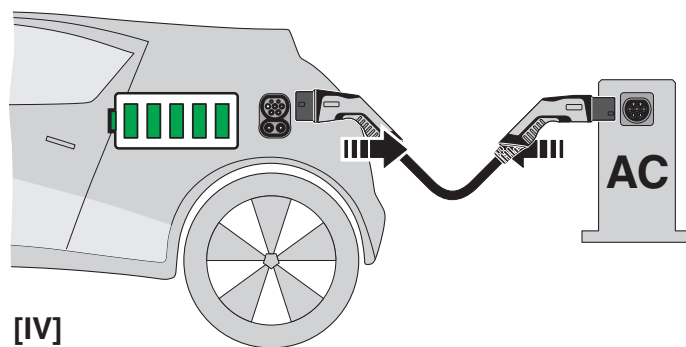
[I]



[II]



[III]



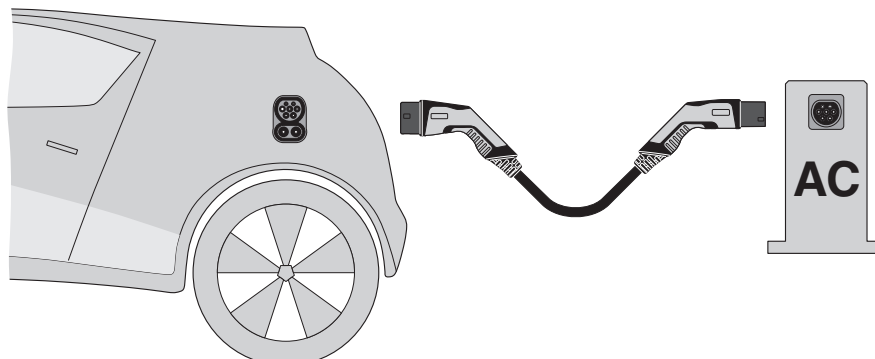
[IV]



[V]

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Schematic diagram



Terminology definition

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27144705 |
| eCl@ss 11.0 | 27144705 |
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27143400 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 9.0 | 27144705 |

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC002061 |
| ETIM 4.0 | EC002061 |
| ETIM 6.0 | EC002897 |
| ETIM 7.0 | EC002897 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211923 |
| UNSPSC 7.0901 | 39121522 |
| UNSPSC 11 | 39121522 |
| UNSPSC 12.01 | 39121522 |
| UNSPSC 13.2 | 39121522 |
| UNSPSC 18.0 | 39121522 |
| UNSPSC 19.0 | 39121522 |
| UNSPSC 20.0 | 39121522 |
| UNSPSC 21.0 | 39121522 |

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Approvals

Approvals

Approvals

IECEE CB Scheme / VDE Zeichengenehmigung

Ex Approvals

Approval details

| | | | |
|--------------------|--|---|-----------|
| IECEE CB Scheme | | http://www.iecee.org/ | DE1-65890 |
| Nominal voltage UN | | 480 V | |
| Nominal current IN | | 32 A | |

| | | | |
|------------------------|--|---|----------|
| VDE Zeichengenehmigung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40045394 |
| Nominal voltage UN | | 480 V | |
| Nominal current IN | | 32 A | |

Accessories

Accessories

Adhesive label

Label - EV-LABEL-C - 1309766



CHARX connect, Label, accordance to DIN EN 17186, for AC charging cable, DIN EN 17186, Marking C for AC type 2 vehicle charging connectors and type 2 vehicle charging inlets

Label - EV-LABEL-C-SO - 1315521



CHARX connect, Label, for AC charging cables and infrastructure charging sockets, DIN EN 17186, Marking C for AC type 2 infrastructure charging plugs and type 2 infrastructure charging sockets

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Accessories

Charging connector holder

Charging connector holder - EV-T2AC-PARK - 1624148



CHARX connect, Charging connector holder, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting

Infrastructure socket outlet

Set - EV-T2M3SO12-3P-P-SET - 1164422



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Premium with LED cover, "PHOENIX CONTACT" logo

Set - EV-T2M3SO12-4P-P-SET - 1164423



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Premium with LED cover, "PHOENIX CONTACT" logo

Set - EV-T2M3SO12-3P-BL-SET - 1268358



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Basic with LED cover, "PHOENIX CONTACT" logo

Set - EV-T2M3SO12-4P-BL-SET - 1268355



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Basic with LED cover, "PHOENIX CONTACT" logo

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Accessories

Set - EV-T2M3SO12-3P-B-SET - 1164420



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Basic, "PHOENIX CONTACT" logo

Set - EV-T2M3SO12-4P-B-SET - 1164417



CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Basic, "PHOENIX CONTACT" logo