

EV-T2G3P-1AC20A-4,0M2,5EHBK01 - AC charging cable



1627731

<https://www.phoenixcontact.com/us/products/1627731>

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CHARX connect comfort, Type 2, AC charging cable, 20 A permanent, 250 V AC, with infrastructure charging plug and free cable end, cable: 4 m, black, spiraled, with protective cap, housing: black, gray, PHOENIX CONTACT logo, IEC 62196-2, for charging electric vehicles (EV) with alternating current (AC)

Product description

AC charging cable with Infrastructure Plug and open cable end for charging electric vehicles (EV) with alternating current (AC), 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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1627731 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | XWBEBA |
| GTIN | 4055626349831 |
| Weight per piece (including packing) | 1.547 g |
| Weight per piece (excluding packing) | 1,475 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------|---|
| Product type | AC charging cable |
| Product family | CHARX connect comfort |
| Application | for charging electric vehicles (EV) with alternating current (AC) compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE) |
| Design | with protective cap |
| Charging standard | Type 2 |
| Charging mode | Mode 3 |
| 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) |
| Rated voltage | 250 V |

Pin assignment (Leistungskontakte)

| | |
|-------------------------------|--|
| 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 (Signalkontakte)

| | |
|-------------------------------|--|
| 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

Infrastructure charging plug

| | |
|--------|----------|
| Width | 58 mm |
| Height | 131.8 mm |
| Depth | 233.4 mm |

Material specifications

| | |
|---------------------|--------------|
| Color (Housing) | black (9005) |
| Color (Handle area) | gray (7042) |

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| | |
|---|--|
| Color (Mating face) | black (9005) |
| Color (Protective cap) | black (9005) |
| Color (Cable) | black (9005) |
| Material (Infrastructure charging plug) | 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 type | Class 5 |
| Cable type | spiraled |
| Cable structure | 3 x 2.5 mm ² + 1 x 0.5 mm ² |
| External cable diameter | 10.20 mm ±0.3 mm |
| Outer sheath, material | TPE-U |
| Stripping length of the sheath | 70 mm ±5 mm |
| Block length | 0.68 m ±10 % |
| Coil diameter | 45 mm ±10 % |
| Effective length | max. 4 m ±5 % |
| 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 |

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 |

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| | |
|----------|--------------------------|
| Altitude | 5000 m (above sea level) |
|----------|--------------------------|

Standards and regulations

| | |
|-----------------------|-------------|
| Standards | |
| Standards/regulations | IEC 62196-2 |

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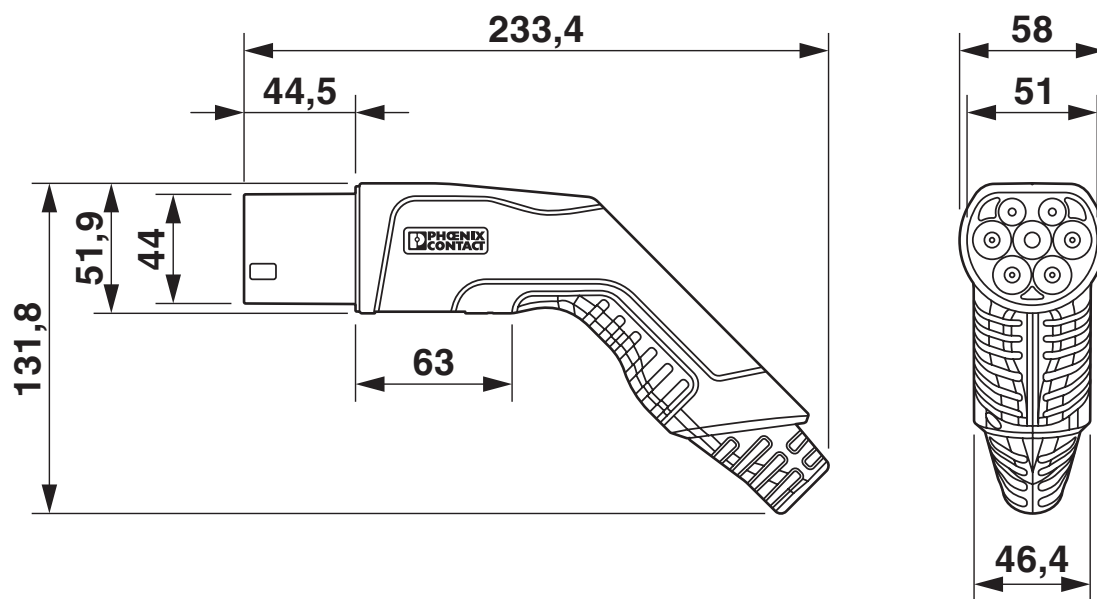


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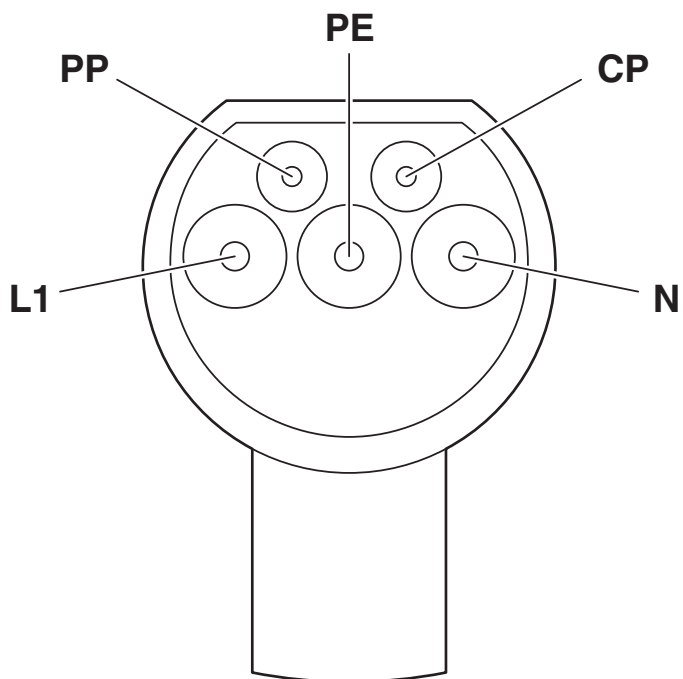
Drawings

Dimensional drawing



Infrastructure plug

Connection diagram



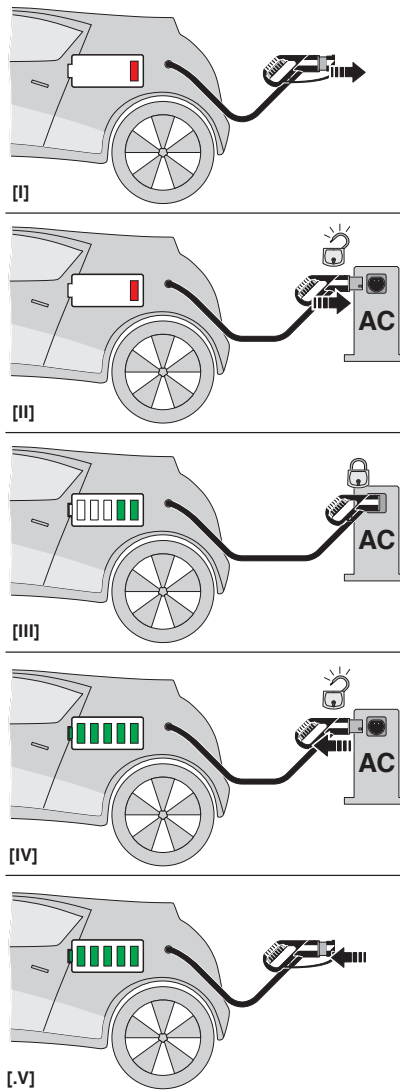
Pin assignment of Infrastructure Plug

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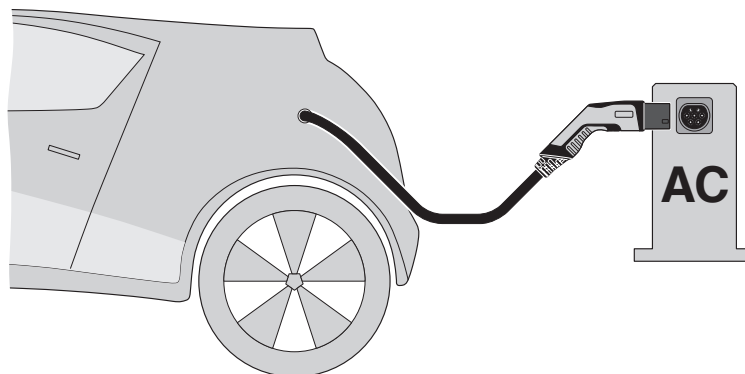
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Schematic diagram



Operating instructions

Schematic diagram



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Approvals

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|  IECEE CB Scheme Approval ID: DE1-60744 | | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 250 V | 20 A | - | - |

|  VDE approval of drawings Approval ID: 40045392 | | | | |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| keine | | | | |
| | 250 V | 20 A | - | - |

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Classifications

ECLASS

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

ETIM

| | |
|----------|----------|
| ETIM 9.0 | 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 | 91d97eb5-12ab-4ffc-9795-3e2ae6d8e5a5 |

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