

# EV-T2G3C-3AC20A-4,0M2,5EHBK11 - AC charging cable



1097295

<https://www.phoenixcontact.com/in/products/1097295>

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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, spiraled, with protective cap, 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                          | 1097295            |
| Packing unit                         | 1 pc               |
| Minimum order quantity               | 1 pc               |
| Sales key                            | *****              |
| Product key                          | XWBAAC             |
| Catalog page                         | Page 21 (C-7-2019) |
| GTIN                                 | 4055626937908      |
| Weight per piece (including packing) | 2,286 g            |
| Weight per piece (excluding packing) | 2,286 g            |
| Customs tariff number                | 85444290           |
| 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) via type 2 vehicle charging inlets<br>for installation at charging stations for electromobility (EVSE) |
| Type                | AC charging cable<br>with vehicle charging connector and open cable end                                                                                                  |
| Design              | with protective cap                                                                                                                                                      |
| Affixed logo        | PHOENIX CONTACT logo                                                                                                                                                     |
| Charging mode       | Mode 3, Case C                                                                                                                                                           |
| Charging standard   | Type 2                                                                                                                                                                   |
| Customer variations | On request                                                                                                                                                               |

### Electrical properties

|                               |                                          |
|-------------------------------|------------------------------------------|
| Type of signal transmission   | Pulse width modulation                   |
| Note on the connection method | Crimp connection, cannot be disconnected |
| Coding                        | 680 $\Omega$ (between PE and PP)         |
| Type of charging current      | AC 3-phase                               |
| Charging power                | 16.63 kW (3-phase)                       |
| Charging current              | 20 A AC (3-phase)                        |

#### Power contact

|               |                       |
|---------------|-----------------------|
| Number        | 5 (L1, L2, L3, N, PE) |
| Rated voltage | 480 V AC              |
| Rated current | 20 A                  |

#### Signal contact

|               |            |
|---------------|------------|
| Number        | 2 (CP, PP) |
| Rated voltage | 30 V AC    |
| Rated current | 2 A        |

## Dimensions

#### Vehicle charging connector

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

## Material specifications

|                     |              |
|---------------------|--------------|
| Color (Housing)     | black (9005) |
| Color (Handle area) | black (9005) |
| Color (Mating face) | black (9005) |

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|                                       |              |
|---------------------------------------|--------------|
| Color (Protective cap)                | black (9005) |
| Color (Cable)                         | black (9005) |
| Material (Vehicle charging connector) | Plastic      |
| Material (Cable outer sheath)         | TPE-U        |
| Material (Contact surface)            | Silver       |

## 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                | 5 x 2.5 mm <sup>2</sup> + 1 x 0.5 mm <sup>2</sup>                        |
| External cable diameter        | 12.80 mm ±0.4 mm                                                         |
| Outer sheath, material         | TPE-U                                                                    |
| Stripping length of the sheath | 70 mm ±5 mm                                                              |
| Block length                   | 0.63 m ±10 %                                                             |
| Coil diameter                  | 60 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. 192 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 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

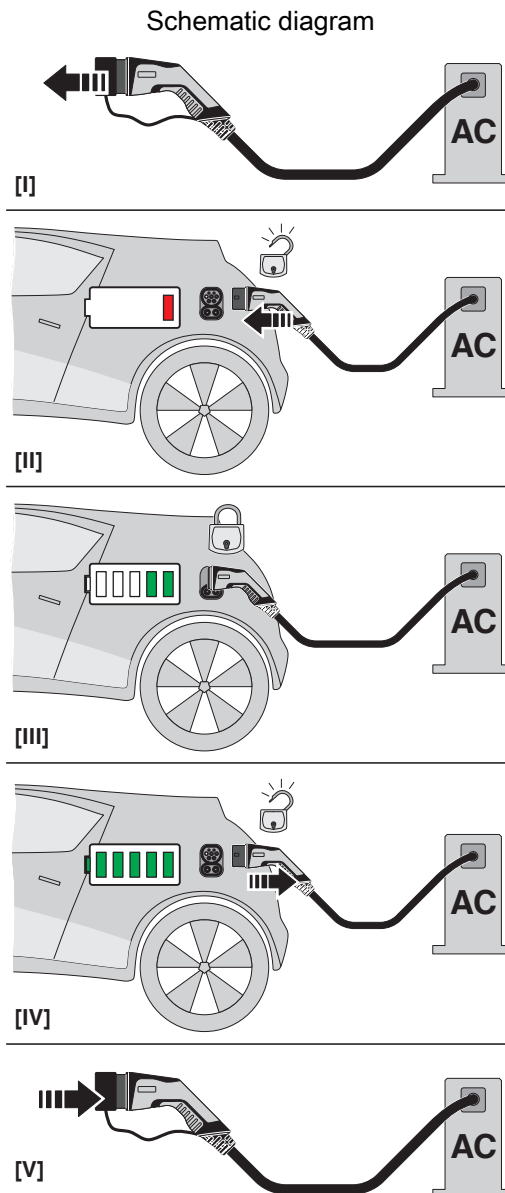
|                       |             |
|-----------------------|-------------|
| Standards/regulations | IEC 62196-2 |
|-----------------------|-------------|

# EV-T2G3C-3AC20A-4,0M2,5EHBK11 - AC charging cable

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## Drawings



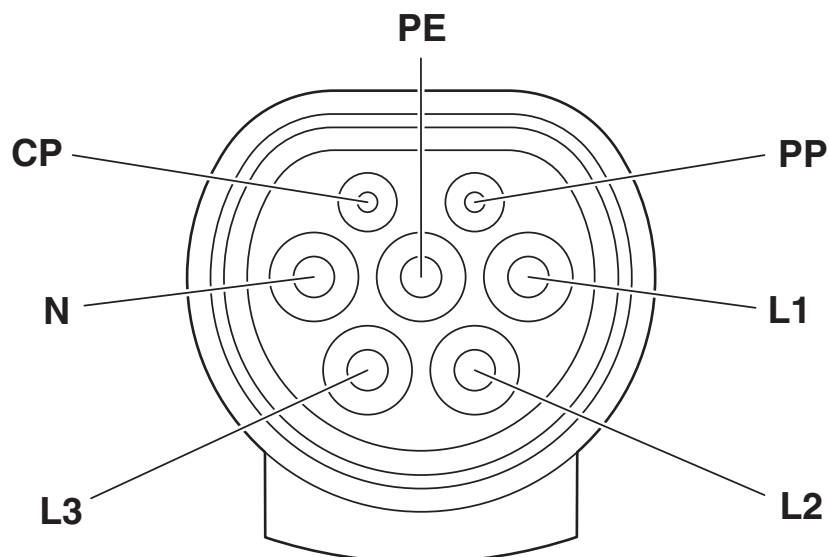
Operating instructions

# EV-T2G3C-3AC20A-4,0M2,5EHBK11 - AC charging cable

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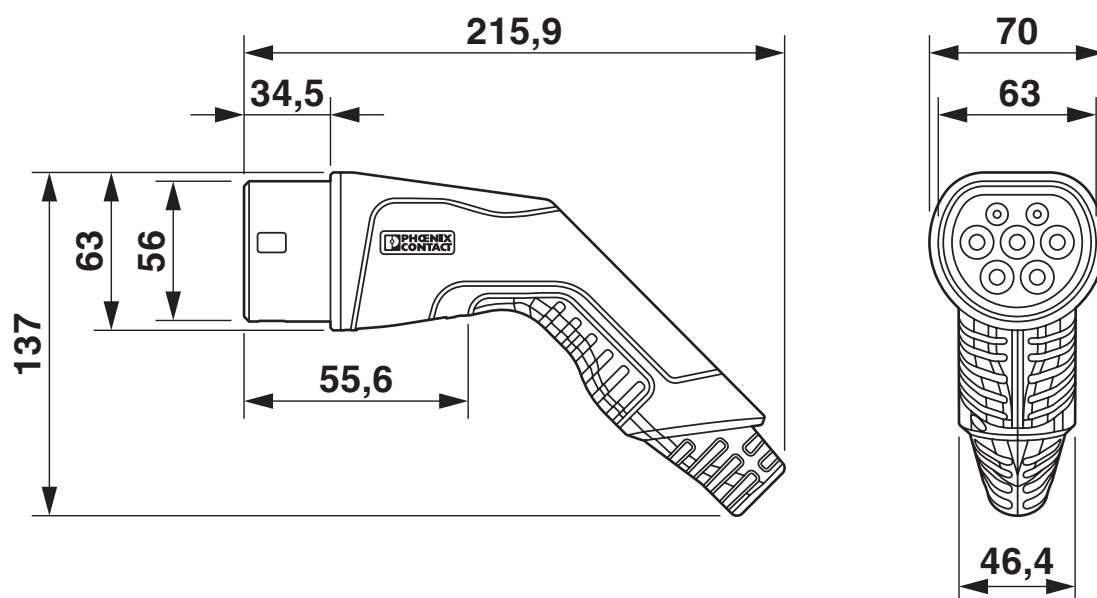
<https://www.phoenixcontact.com/in/products/1097295>

Schematic diagram



Pin assignment of the Vehicle Connector

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.

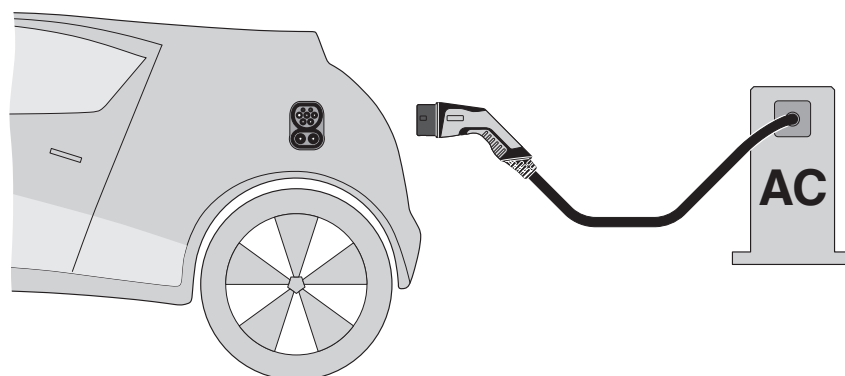
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Schematic diagram



Terminology definition

# EV-T2G3C-3AC20A-4,0M2,5EHBK11 - AC charging cable



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1097295>

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

|  | VDE approval of drawings |                       |                   |                             |
|-----------------------------------------------------------------------------------|--------------------------|-----------------------|-------------------|-----------------------------|
|                                                                                   | Approval ID: 40045387    |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$    | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 480 V                    | 20 A                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27144705 |
| ECLASS-12.0 | 27144705 |
| ECLASS-13.0 | 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-10                                                                                                                                                                                                                           |
|                                        | 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                                | 4582504a-9455-49e3-baab-213693b89831 |

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## Accessories

### EV-T2AC-PARK - Charging connector holder

1624148

<https://www.phoenixcontact.com/in/products/1624148>



CHARX connect, Type 2, Charging connector holder, Accessories, Front mounting, housing: black, for vehicle charging connectors on charging stations (EVSE), PHOENIX CONTACT logo, IEC 62196-2

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### EV-LABEL-C - Label

1309766

<https://www.phoenixcontact.com/in/products/1309766>



CHARX connect, Label, Accessories, for AC type 2 vehicle charging connector and for AC type 2 vehicle charging inlet, DIN EN 17186

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## CHARX SEC-1000 - AC charging controller

1139034

<https://www.phoenixcontact.com/in/products/1139034>



CHARX control modular, AC charging controller, IEC 61851-1, operating mode: Stand-Alone, Client, interface: CHARX control modular system bus, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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## CHARX SEC-3000 - AC charging controller

1139022

<https://www.phoenixcontact.com/in/products/1139022>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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## CHARX SEC-3050 - AC charging controller

1139018

<https://www.phoenixcontact.com/in/products/1139018>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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## CHARX SEC-3100 - AC charging controller

1139012

<https://www.phoenixcontact.com/in/products/1139012>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2 x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

# EV-T2G3C-3AC20A-4,0M2,5EHBK11 - AC charging cable



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## CHARX SEC-3150 - AC charging controller

1138965

<https://www.phoenixcontact.com/in/products/1138965>



CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), Cellular communication (4G/2G), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

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## EEM-EM357 - Measuring device

2908588

<https://www.phoenixcontact.com/in/products/2908588>



3-phase energy meter for active power measurement with direct measurement in grids of up to 500 V/80 A, with S0 output, with digital input and RS-485 interface, certified in accordance with the MID directive

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## EV-CC-AC1-M3-CC-SER-HS - AC charging controller

1622459

<https://www.phoenixcontact.com/in/products/1622459>



The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

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## EV-CC-AC1-M3-CC-SER-PCB - AC charging controller

1622460

<https://www.phoenixcontact.com/in/products/1622460>



The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

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## EV-CC-AC1-M3-CC-SER-PCB-XC-25X - AC charging controller

1627742

<https://www.phoenixcontact.com/in/products/1627742>



The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

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## EV-CC-AC1-M3-CC-SER-PCB-MSTB - AC charging controller

1627367

<https://www.phoenixcontact.com/in/products/1627367>



The EV-CC-AC1-M3-CC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, optimized for charging stations with permanently mounted Vehicle Connector. Connection via PCB connector on header.

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## EM-CP-PP-ETH - AC charging controller

2902802

<https://www.phoenixcontact.com/in/products/2902802>



EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

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## VAL-EV-T1/T2 264/12.5/3+1 - Lightning/surge arrester type 1/2

1180149

<https://www.phoenixcontact.com/in/products/1180149>



CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.



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## VAL-EV-T1/T2 264/12.5/3+1-R - Lightning/surge arrester type 1/2

1180150

<https://www.phoenixcontact.com/in/products/1180150>



CHARX protect advanced: Plug-in lightning surge/surge protective device, in accordance with Type 1/2 / Class I/II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

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## VAL-EV-T2 280/3+1 - Type 2 surge arrester

1180144

<https://www.phoenixcontact.com/in/products/1180144>



CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE). Specifically designed for use in e-mobility.

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## VAL-EV-T2 280/3+1-R - Type 2 surge arrester

1180145

<https://www.phoenixcontact.com/in/products/1180145>



CHARX protect basic: Plug-in surge protective device, in accordance with Type 2/Class II, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with remote indication contact. Specifically designed for use in e-mobility.

## G-INS-M20-M68N-PNES-BK - Cable gland

1424481

<https://www.phoenixcontact.com/in/products/1424481>



Cable gland, material for screw connection: PA, application: Standard, external cable diameter 10 mm ... 14 mm, shielding: no, connecting thread: M20 x 1.5, color: jet black RAL 9005

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