

# CHARX ENAC-1AC80-25FAS00PUT - AC charging cable



1661615  
<https://www.phoenixcontact.com/us/products/1661615>

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CHARX connect eco, NACS, AC charging cable, 80 A permanent, 277 V AC, with vehicle charging connector and open cable end, cable: 25 ft, black, straight, without protective cap, with temperature sensors, PHOENIX CONTACT logo, SAE J3400, UL 2251, for charging electric vehicles (EV) with alternating current (AC) via NACS 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 NACS vehicle charging inlets, for installation at charging stations for e-mobility (EVSE)

## Your advantages

- Conformance with UL 2251, SAE J3400, and IATF 16949 ensures the highest quality, safety, and compatibility
- IP2XB touch protection with molded caps provides maximum electrical safety
- Optional temperature sensor technology protects against overheating
- Longitudinal water tightness protects live parts from moisture
- Ergonomic design facilitates handling
- Available on request with your logo, custom cable length, and assembled cable end

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1661615       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWBDNF        |
| GTIN                                 | 4067923200128 |
| Weight per piece (including packing) | 4,970 g       |
| Weight per piece (excluding packing) | 4,970 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Notes

#### Trade restriction

|         |                                                                                                |
|---------|------------------------------------------------------------------------------------------------|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|------------------------------------------------------------------------------------------------|

### Product properties

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| Product type      | AC charging cable                                                       |
| Product family    | CHARX connect eco                                                       |
| Type              | AC charging cable<br>with vehicle charging connector and open cable end |
| Design            | without protective cap<br>with temperature sensors                      |
| Charging standard | NACS                                                                    |
| Charging mode     | AC level 2                                                              |
| Affixed logo      | PHOENIX CONTACT logo                                                    |

### Electrical properties

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

|                          |                   |
|--------------------------|-------------------|
| Type of charging current | AC single-phase   |
| Charging current         | 80 A AC (1-phase) |
| Charging power           | 20 kW (1-phase)   |
| Operating voltage        | 240 V<br>277 V    |

#### Pin assignment (Power contacts)

|               |               |
|---------------|---------------|
| Number        | 3 (L1, N, PE) |
| Rated voltage | 277 V AC      |
| Rated current | 80 A          |

#### Pin assignment (Signal contacts)

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

#### Temperature sensors (NTC)

|                        |                                                              |
|------------------------|--------------------------------------------------------------|
| Sensor type            | NTC                                                          |
| Standards/regulations  | UL 4484                                                      |
| Resistance             | 10 kΩ                                                        |
| Switch-off temperature | 90 °C (corresponds to an NAC resistance value of 12266 ohms) |

### Dimensions

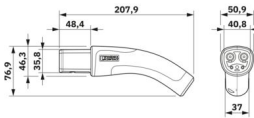
#### Vehicle charging connector

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|                     |          |                                                                                    |
|---------------------|----------|------------------------------------------------------------------------------------|
| Dimensional drawing |          |  |
|                     |          | Dimensional drawing                                                                |
| Width               | 50.9 mm  |                                                                                    |
| Height              | 76.9 mm  |                                                                                    |
| Depth               | 207.9 mm |                                                                                    |

## Material specifications

|                                       |                                                                      |
|---------------------------------------|----------------------------------------------------------------------|
| Color (Housing)                       | black (9005)                                                         |
| Color (Handle area)                   | black (9005)                                                         |
| 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                   | 25 ft                                                                   |
| Wiring standards/regulations   | UL 62                                                                   |
| Cable weight                   | max. 540.00 kg/km                                                       |
| Cable type                     | straight                                                                |
| Cable structure                | 2 x 6 AWG + 1 x 8 AWG + 4 x 22 AWG                                      |
| External cable diameter        | 17.80 mm ±0.4 mm                                                        |
| Outer sheath, material         | TPE                                                                     |
| Stripping length of the sheath | 70 mm ±5 mm                                                             |
| Stripping length               | 70 mm ±5 mm                                                             |
| Cable resistance               | ≤ 0.0014 Ω/m (based on a power core, at an ambient temperature of 20°C) |
| Bending radius                 | min. 160 mm ((9 x D))                                                   |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | > 10000 |
| Insertion force             | < 75 N  |
| Withdrawal force            | < 75 N  |

## Environmental and real-life conditions

### Ambient conditions

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|                                               |                          |
|-----------------------------------------------|--------------------------|
| Degree of protection (Vehicle charging inlet) | IP44 (when plugged in)   |
| Ambient temperature (operation)               | -30 °C ... 50 °C         |
| Ambient temperature (storage/transport)       | -40 °C ... 80 °C         |
| Altitude                                      | 5000 m (above sea level) |

## Standards and regulations

### Standards

|                       |           |
|-----------------------|-----------|
| Standards/regulations | SAE J3400 |
|                       | UL 2251   |

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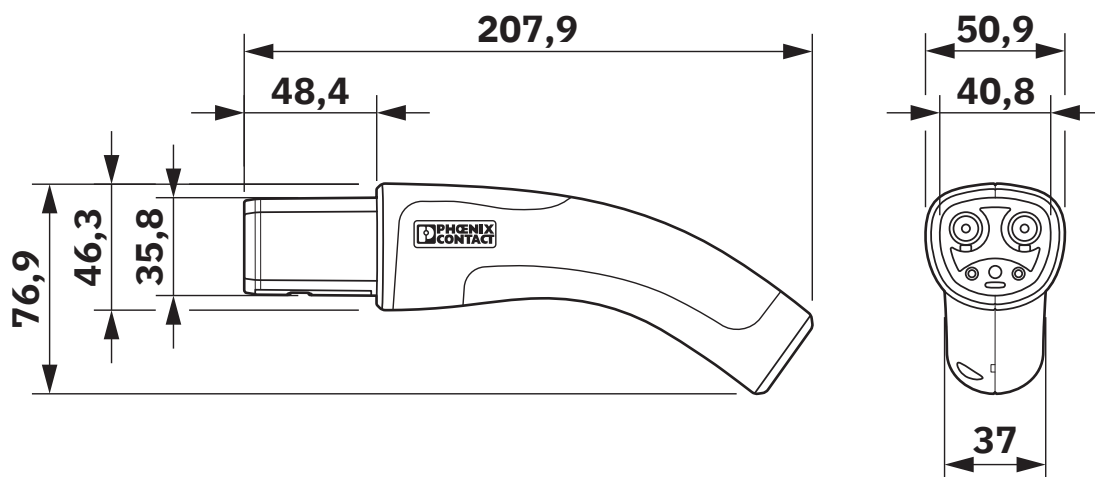


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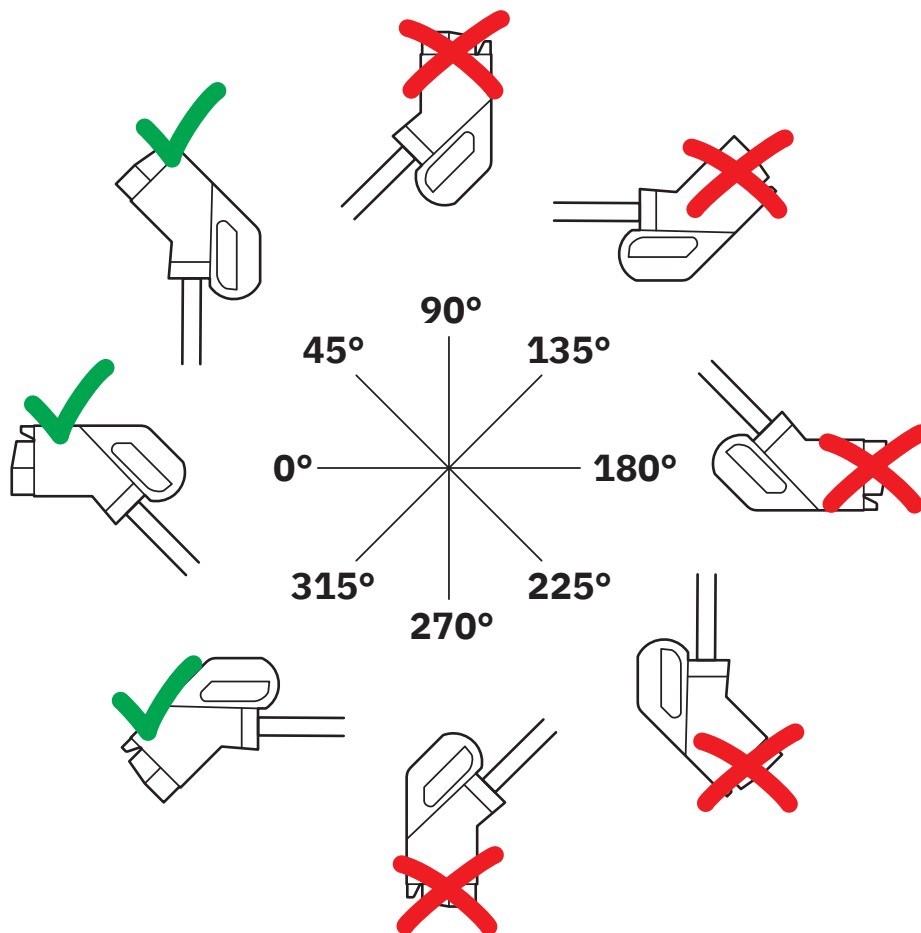
## Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

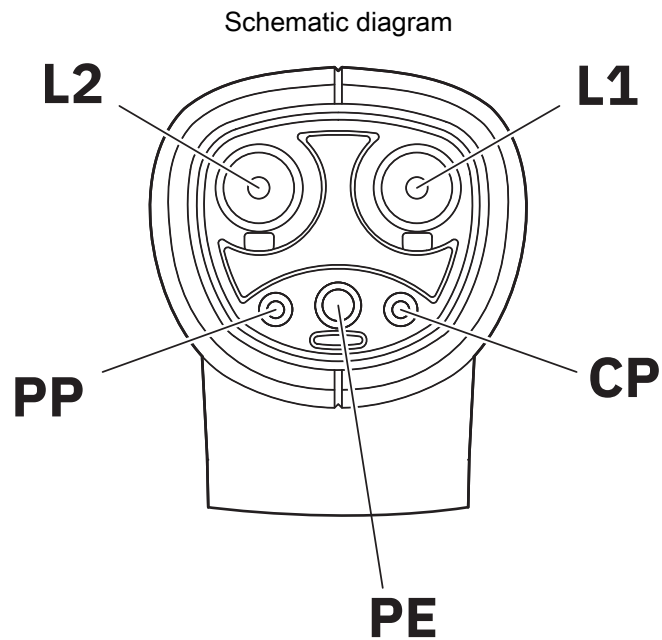


Installation positions

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Pin assignment of the Vehicle Connector

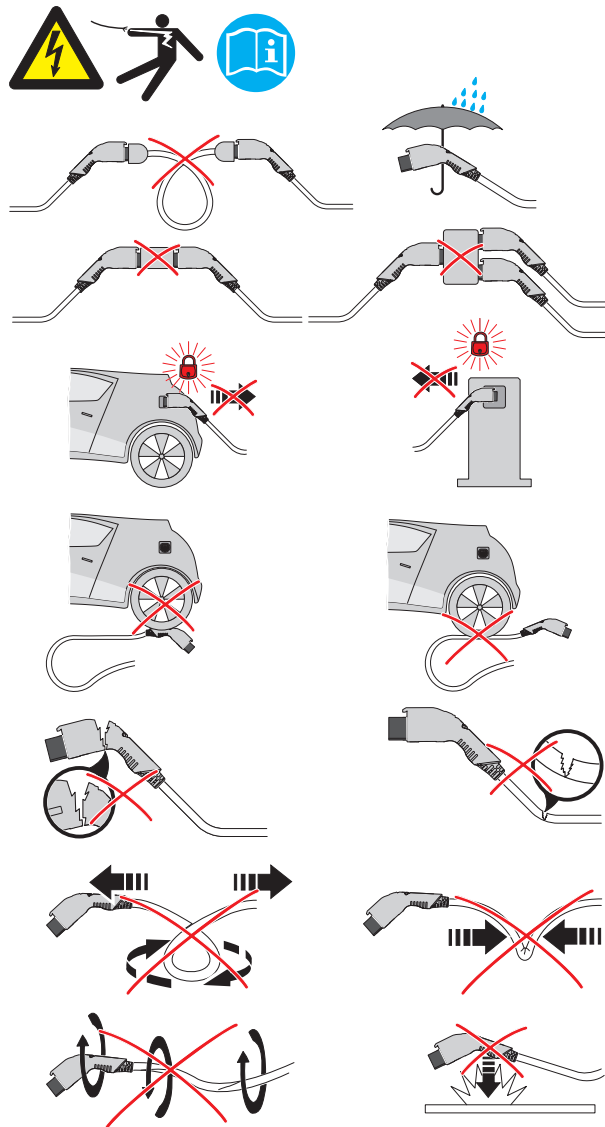
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### Schematic diagram



### Warning signal note

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1661615>

|                                                                                                                                                        |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E473195-20250707</div> |                       |                       |                   |                             |
|                                                                                                                                                        | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                                  |                       |                       |                   |                             |
|                                                                                                                                                        | 277 V                 | 80 A                  | -                 | -                           |



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## Classifications

### ECLASS

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

### ETIM

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

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## Environmental product compliance

|                                         |                                                             |
|-----------------------------------------|-------------------------------------------------------------|
| EU RoHS                                 |                                                             |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                                          |
| China RoHS                              |                                                             |
| Environment friendly use period (EFUP)  | EFUP-E                                                      |
|                                         | No hazardous substances above the limits                    |
| EU REACH SVHC                           |                                                             |
| REACH candidate substance (CAS No.)     | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1) |

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