

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617

<https://www.phoenixcontact.com/us/products/1661617>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect eco, NACS, AC charging cable, 50 A permanent, 277 V AC, with vehicle charging connector and open cable end, cable: 25 ft, black, straight, without protective cap, with temperature sensors, 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	1661617
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	EM01
Product key	XWBDNE
GTIN	4067923200036
Weight per piece (including packing)	2,362 g
Weight per piece (excluding packing)	2,362 g
Customs tariff number	85444290
Country of origin	PL

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617

<https://www.phoenixcontact.com/us/products/1661617>

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 with vehicle charging connector and open cable end
Design	without protective cap with temperature sensors
Charging standard	NACS
Charging mode	AC level 2

Electrical properties

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

Type of charging current	AC single-phase
Charging current	50 A AC (1-phase)
Charging power	12 kW (1-phase)
Operating voltage	typ. 240 V typ. 277 V

Pin assignment (Power contacts)

Number	3 (L1, N, PE)
Rated voltage	277 V AC
Rated current	50 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

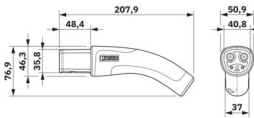
Vehicle charging connector

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617

<https://www.phoenixcontact.com/us/products/1661617>

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. 268.00 kg/km
Cable type	straight
Cable structure	3 x 10 AWG + 4 x 22 AWG
External cable diameter	12.70 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	≤ 3.51 Ω/km (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 52 mm

Mechanical properties

Mechanical data

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

Environmental and real-life conditions

Ambient conditions

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617
<https://www.phoenixcontact.com/us/products/1661617>

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

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable

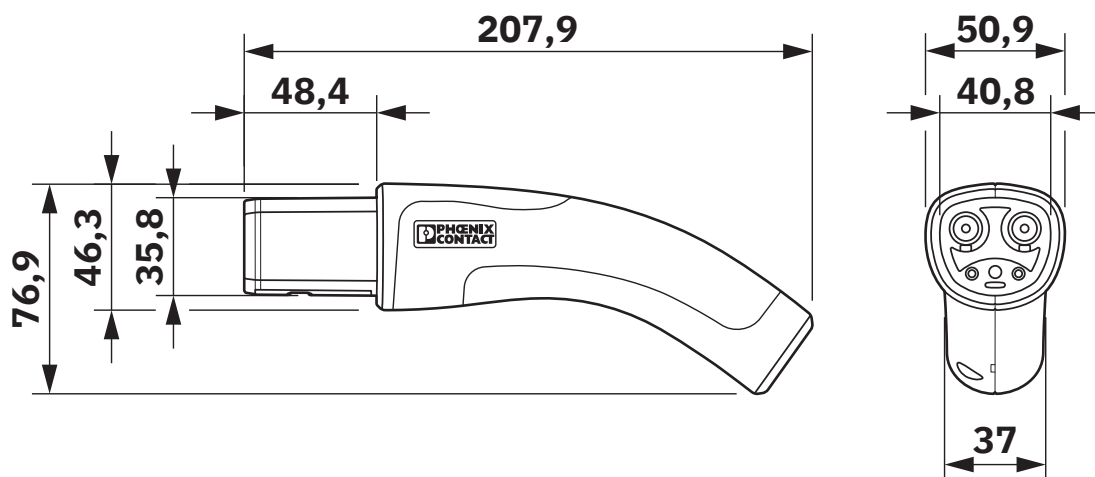


1661617

<https://www.phoenixcontact.com/us/products/1661617>

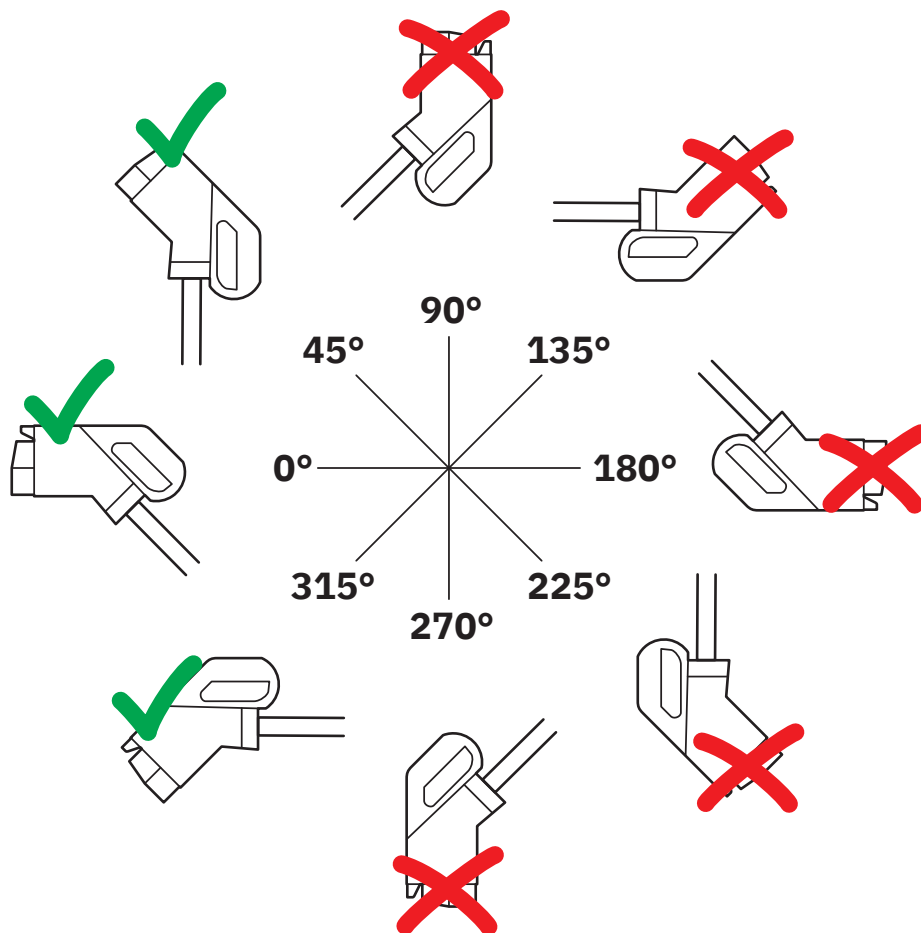
Drawings

Dimensional drawing



Dimensional drawing

Schematic diagram

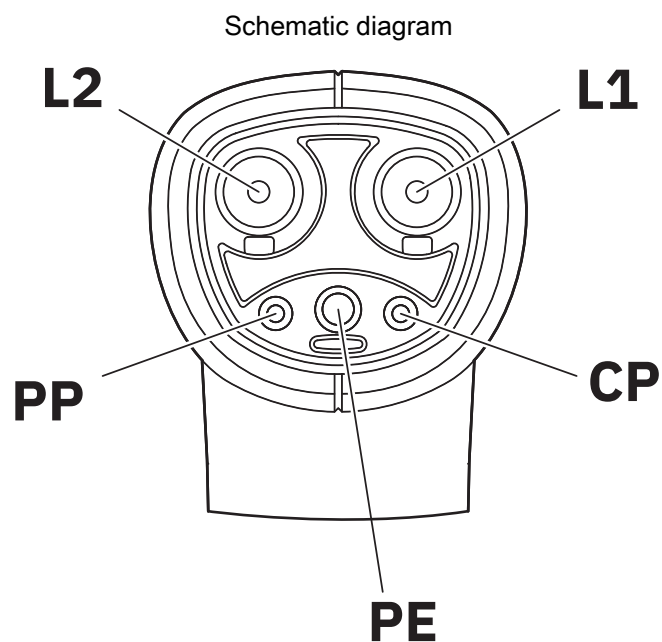


Installation positions

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable

1661617

<https://www.phoenixcontact.com/us/products/1661617>



Pin assignment of the Vehicle Connector

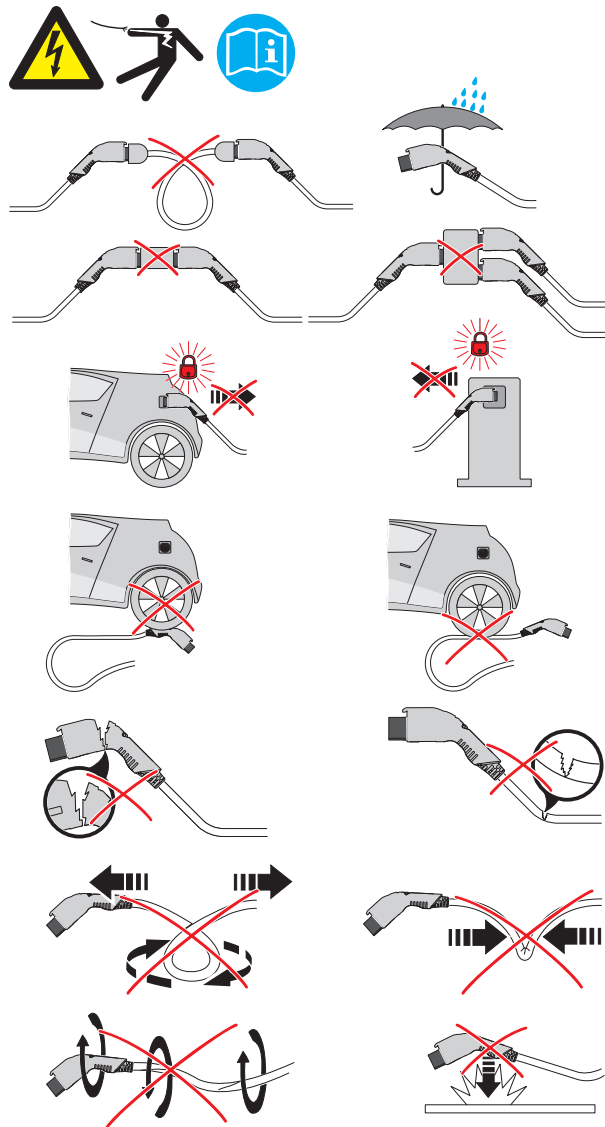
CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617

<https://www.phoenixcontact.com/us/products/1661617>

Schematic diagram



Warning signal note

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617
<https://www.phoenixcontact.com/us/products/1661617>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1661617>

 cULus Recognized Approval ID: E473195-20250707				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	277 V	50 A	-	-

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617
<https://www.phoenixcontact.com/us/products/1661617>

Classifications

ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

ETIM

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

CHARX ENAC-1AC50-25FAS00BUT - AC charging cable



1661617
<https://www.phoenixcontact.com/us/products/1661617>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
EU REACH SVHC	
REACH candidate substance (CAS No.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com