

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166
<https://www.phoenixcontact.com/us/products/1277166>

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 comfort, AC charging cable, with vehicle charging connector and open cable end, for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, with protective cap, with temperature sensors, Type 1, SAE J1772, 80 A / 250 V (AC), PHOENIX CONTACT logo, cable: 25 ft, black, straight, NOTE: Cable management may be required.

Product description

AC charging cable with vehicle charging connector and free cable end for charging electric vehicles (EV) with alternating current (AC) via type 1 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	1277166
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBAAA
GTIN	4063151471019
Weight per piece (including packing)	3,210 g
Weight per piece (excluding packing)	3,210 g
Customs tariff number	85444290
Country of origin	PL

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166

<https://www.phoenixcontact.com/us/products/1277166>

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 1 vehicle charging inlets for installation at charging stations for electromobility (EVSE)
Type	AC charging cable with vehicle charging connector and open cable end
Design	with protective cap with temperature sensors
Affixed logo	PHOENIX CONTACT logo

Data management status

Article revision	08
Charging mode	AC level 2
Charging standard	Type 1

Electrical properties

Note on the connection method	Crimp connection, cannot be disconnected
Coding	480 Ω (Lever actuated) 150 Ω (Lever not actuated)
Type of charging current	AC single-phase
Charging power	20 kW
Charging current	80 A

Power contact

Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	80 A

Signal contact

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

Temperature sensors

Switch-off temperature	90 °C
Ambient temperature	-40 °C ... 165 °C

Dimensions

Vehicle charging connector

Width	58 mm
Height	151.1 mm

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166

<https://www.phoenixcontact.com/us/products/1277166>

Depth	236.1 mm
-------	----------

Material specifications

Color (Housing)	black (9005)
Color (Handle area)	black (9005)
Color (Actuating element)	silver grey (7001)
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

Cable/line

Cable length	25 ft
Wiring standards/regulations	UL 62
Cable weight	max. 636.00 kg/km
Cable type	straight
Cable structure	2 x 6 AWG + 1 x 8 AWG + 6 x 22 AWG
External cable diameter	19.40 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. 194 mm (10x)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 10000
Insertion force	< 75 N
Withdrawal force	< 75 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 (Protective cap)	IP54
Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	5000 m (above sea level)

Standards and regulations

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166
<https://www.phoenixcontact.com/us/products/1277166>

Connection in accordance with standard	
Normative cable length restrictions	NOTE: Cable management may be required. Cable management is required in the US if the cable length exceeds 7.5 m (IEC 61851-1).

Standards	
Standards/regulations	SAE J1772

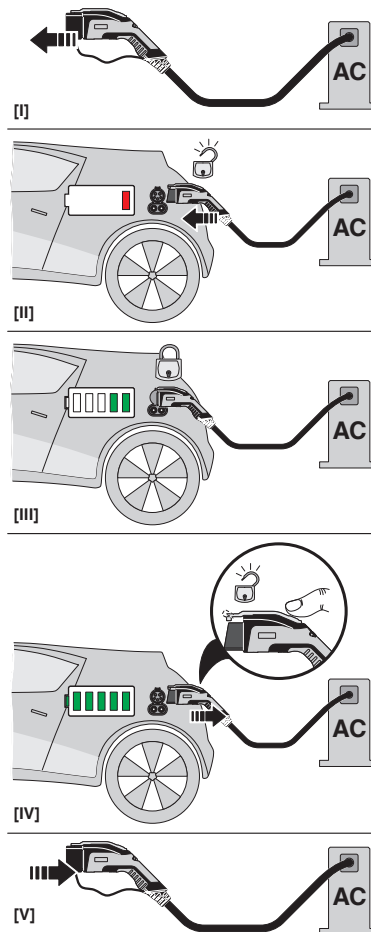
EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable

1277166

<https://www.phoenixcontact.com/us/products/1277166>

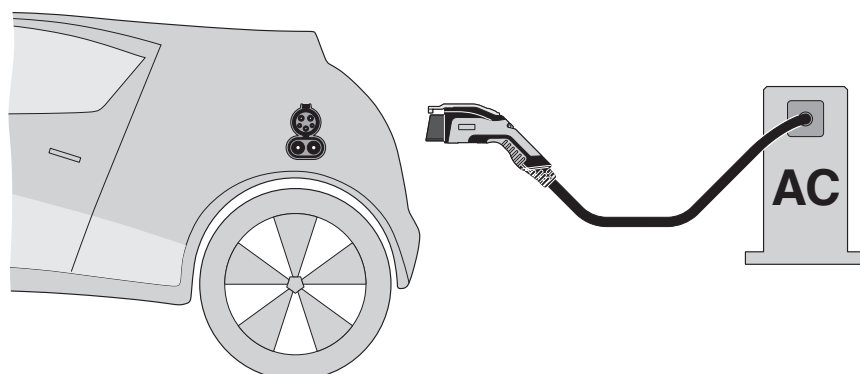
Drawings

Schematic diagram



Operating instructions

Schematic diagram



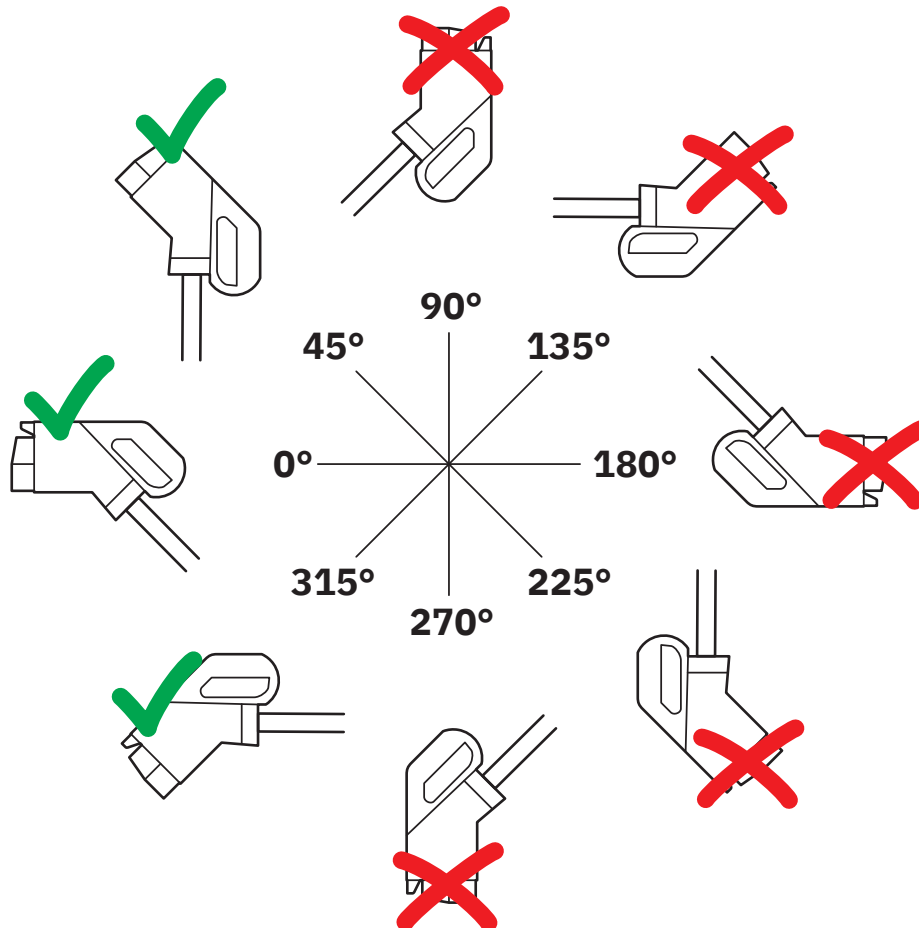
Terminology definition

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable

1277166

<https://www.phoenixcontact.com/us/products/1277166>

Schematic diagram



Installation positions

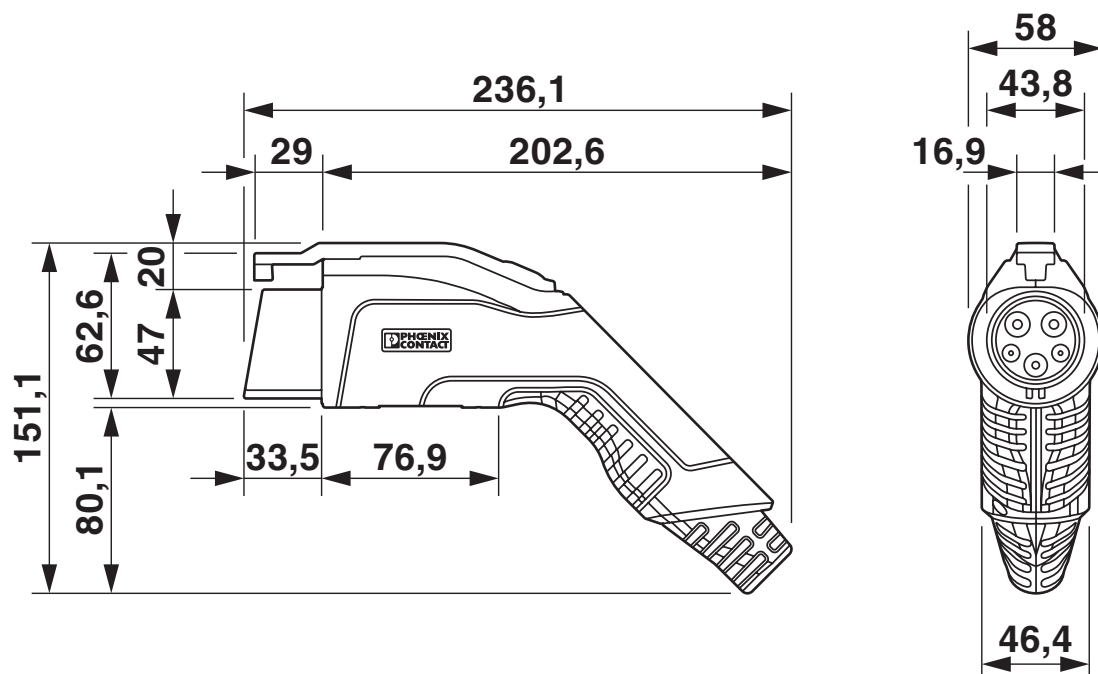
EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166

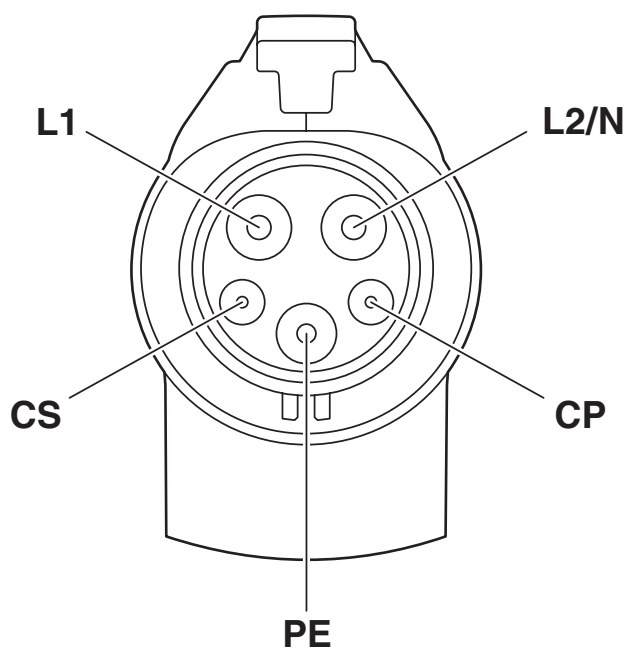
<https://www.phoenixcontact.com/us/products/1277166>

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.

Connection diagram



Pin assignment of the Vehicle Connector

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166
<https://www.phoenixcontact.com/us/products/1277166>

Classifications

ECLASS

ECLASS-11.0	27144705
ECLASS-12.0	27144705
ECLASS-13.0	27144705

ETIM

ETIM 9.0	EC002897
----------	----------

UNSPSC

UNSPSC 21.0	39121500
-------------	----------

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166
<https://www.phoenixcontact.com/us/products/1277166>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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.)	No substance above 0.1 wt%

EV-T1G2C-1AC80A-25FT6ASBK11T - AC charging cable



1277166

<https://www.phoenixcontact.com/us/products/1277166>

Accessories

EV-T1AC-PARK - Charging connector holder

1624139

<https://www.phoenixcontact.com/us/products/1624139>



CHARX connect, Charging connector holder, Accessories, for vehicle charging connectors on charging stations (EVSE), Type 1, SAE J1772, Front mounting, housing: black

G-INS-M32-M68N-PNES-BK - Cable gland

1411136

<https://www.phoenixcontact.com/us/products/1411136>



Cable gland, material for screw connection: PA, application: Standard, external cable diameter 15 mm ... 21 mm, shielding: no, connecting thread: M32 x 1.5, color: jet black RAL 9005

Phoenix Contact 2024 © - 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