

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



1277166

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

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

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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 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
Charging mode	AC level 2
Charging standard	Type 1
Customer variations	On request

Electrical properties

Type of signal transmission	Pulse width modulation
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 (1-phase)
Charging current	80 A AC (1-phase)

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 (Pt 1000)

Sensor type	Pt 1000
Switch-off temperature	90 °C
Ambient temperature	-40 °C ... 165 °C

Dimensions

Vehicle charging connector

Width	58 mm
Height	151.1 mm

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1277166

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Depth	236.1 mm
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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
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. 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)

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1277166
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Standards and regulations

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

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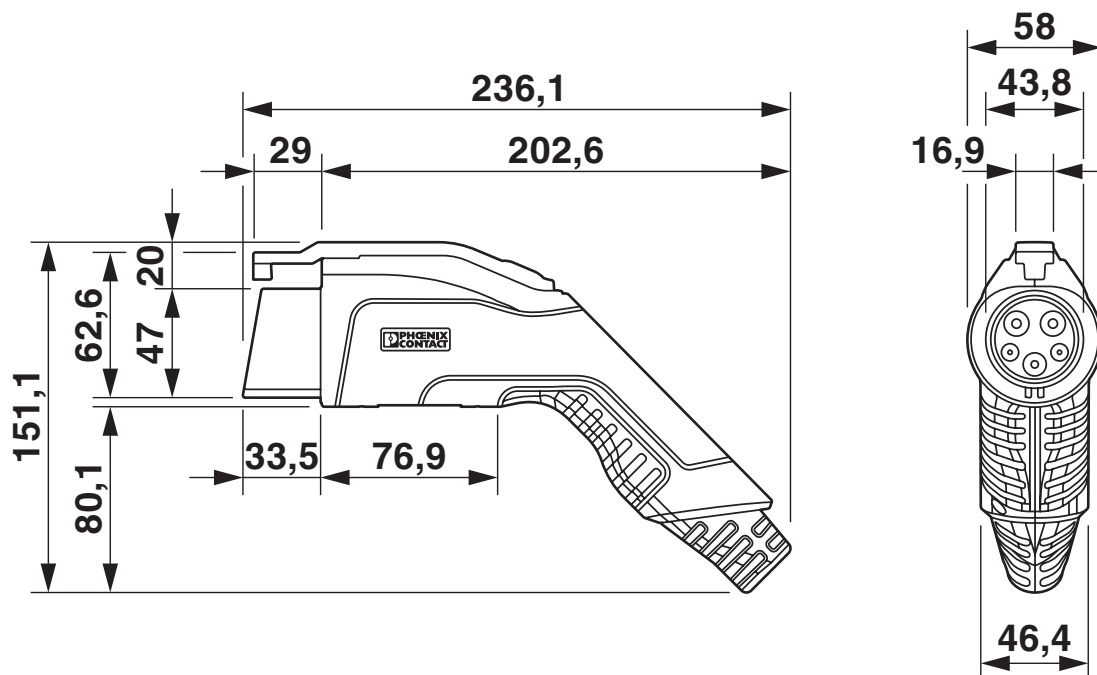


1277166

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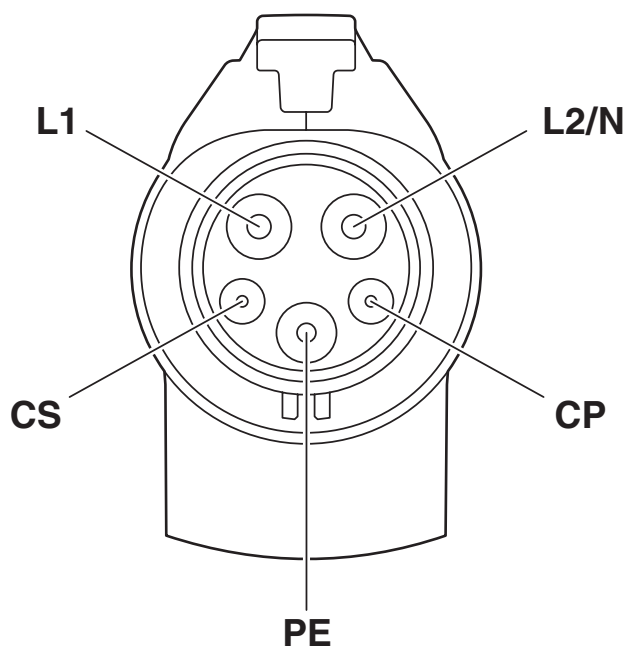
Drawings

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



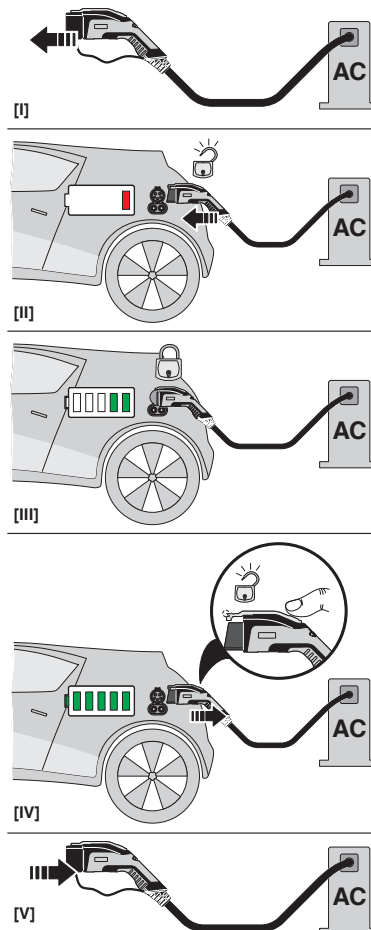
Pin assignment of the Vehicle Connector

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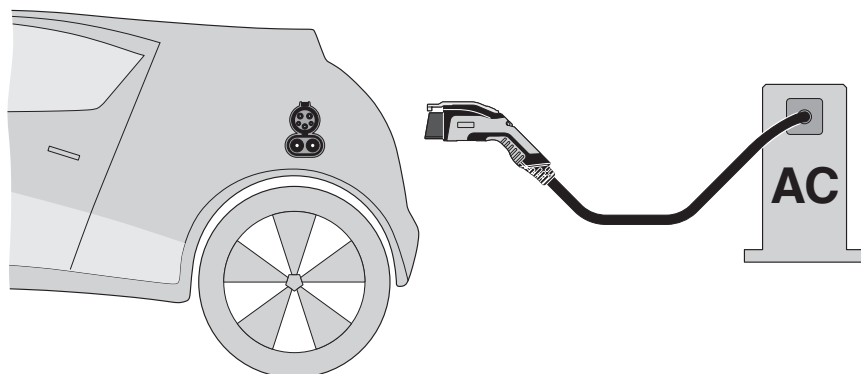
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Schematic diagram



Operating instructions

Schematic diagram



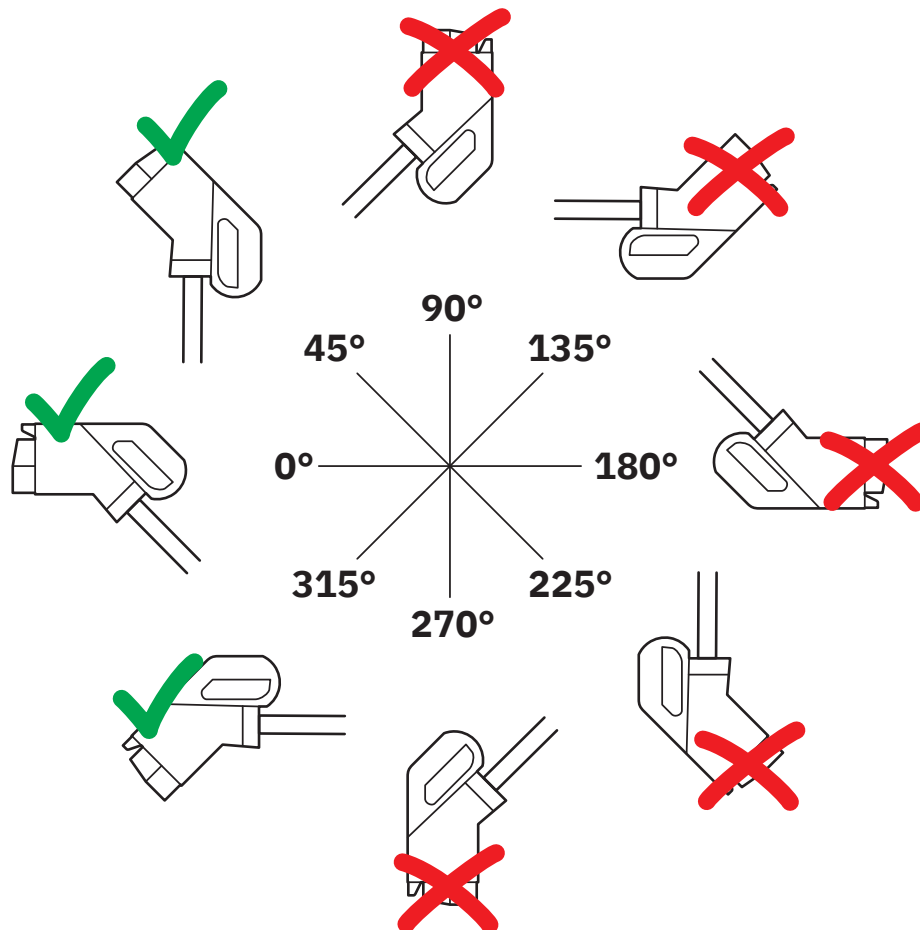
Terminology definition

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1277166

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Schematic diagram



Installation positions


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



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Approvals

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	cULus Recognized			
	Approval ID: E473195-20160303			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		250 V	80 A	-
				Cross section mm ²
				-

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Classifications

ECLASS

ECLASS-13.0	27144705
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ETIM

ETIM 9.0	EC002897
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UNSPSC

UNSPSC 21.0	39121500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
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