

EV-T1G2C-1AC40A-25FT10ASBK01 - AC charging cable



1513808

<https://www.phoenixcontact.com/us/products/1513808>

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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	1513808
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBDAE
GTIN	4063151978112
Weight per piece (including packing)	2,508 g
Weight per piece (excluding packing)	2,508 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)
Design	with protective cap
Charging standard	Type 1
Charging mode	AC level 2
Affixed logo	PHOENIX CONTACT logo
Customer variations	On request

Electrical properties

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

Type of charging current	AC single-phase
Charging current	40 A AC (1-phase)
Charging power	10 kW (1-phase)
Rated voltage	250 V

Pin assignment (Leistungskontakte)

Note on the connection method	Crimp connection, cannot be disconnected
Number	3 (L1, N, PE)
Rated voltage	250 V AC
Rated current	40 A

Pin assignment (Signalkontakte)

Note on the connection method	Crimp connection, cannot be disconnected
Type of signal transmission	Pulse width modulation
Number	2 (CP, CS)
Rated voltage	30 V AC
Rated current	2 A
Coding	480 Ω (Lever actuated) 150 Ω (Lever not actuated)

Dimensions

Vehicle charging connector

Width	58 mm
Height	151.1 mm
Depth	236.1 mm

Material specifications

Color (Housing)	black (9005)
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Color (Handle area)	gray (7042)
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 FFS07.E343212
Cable weight	max. 385.00 kg/km
Cable type	straight
Cable structure	3 x 10 AWG + 1 x 18 AWG
External cable diameter	17.00 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	$\leq 0.00351 \Omega/m$ (based on a power core, at an ambient temperature of 20°C)
Bending radius	min. 255 mm (15x diameter)

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 ensured 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

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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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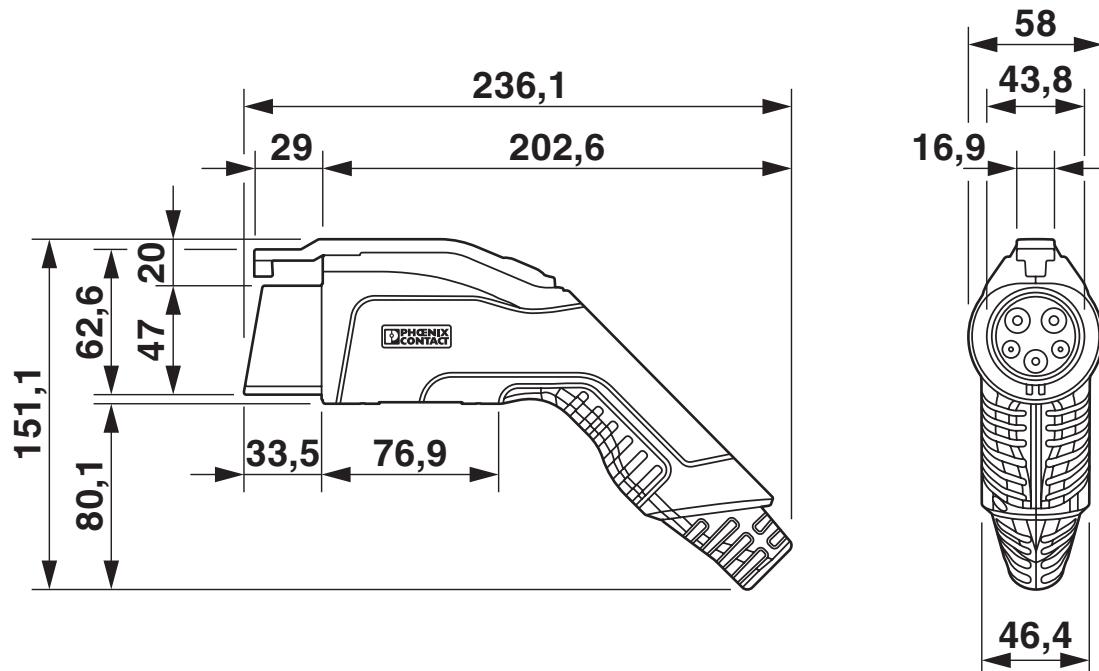


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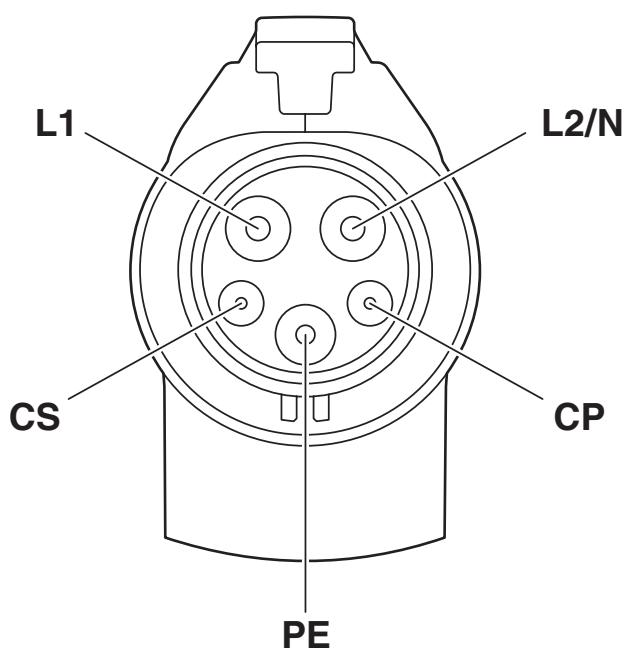
Drawings

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

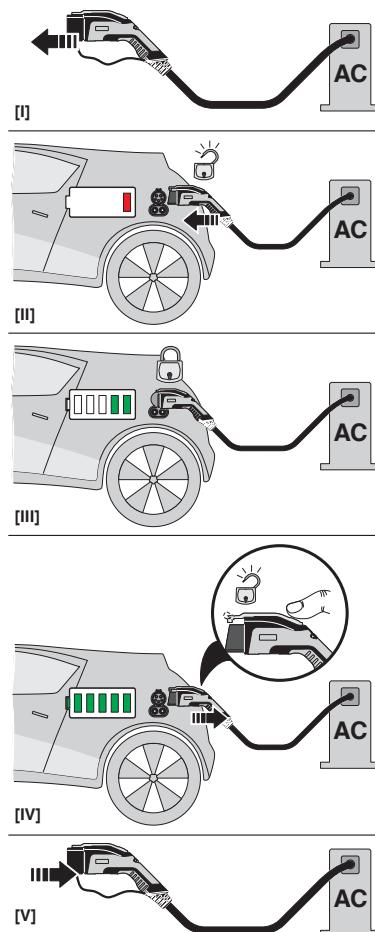
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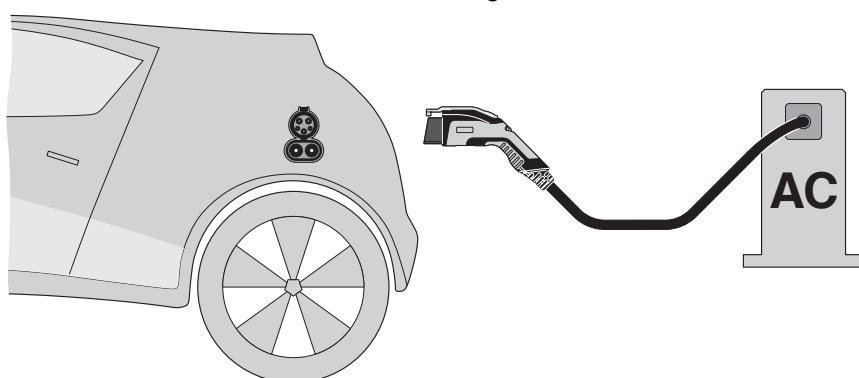
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Schematic diagram



Operating instructions

Schematic diagram



Terminology definition

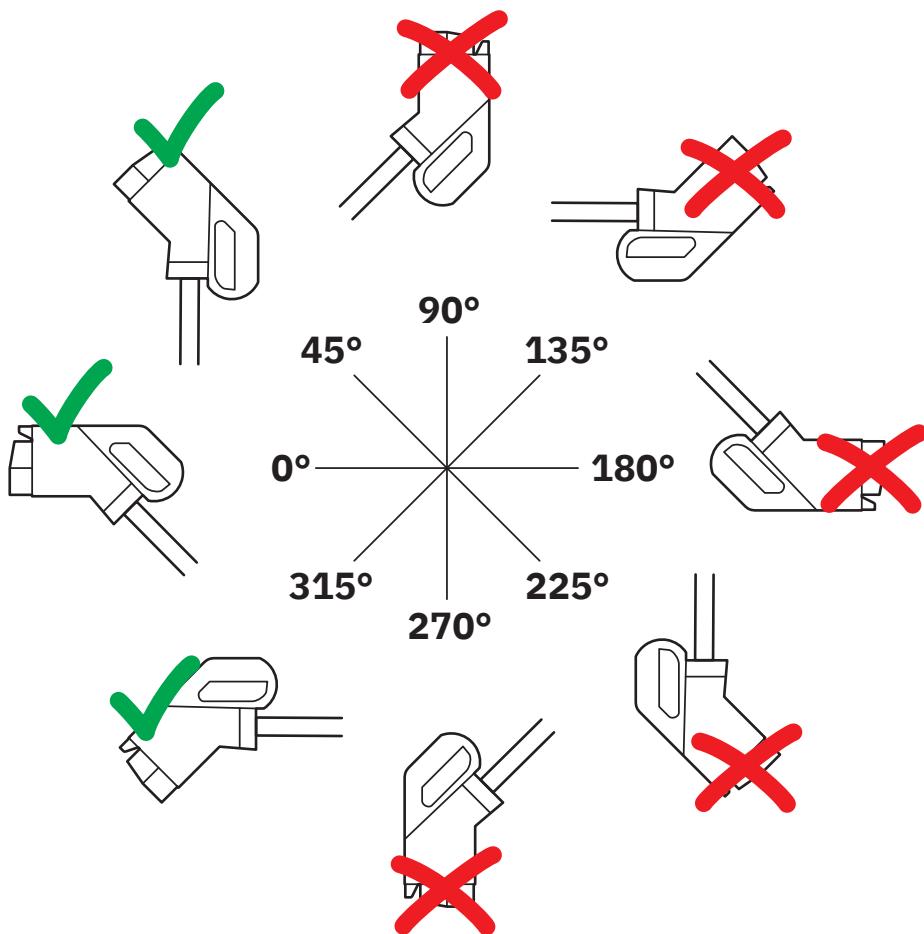
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Schematic diagram



Installation positions

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Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1513808>

cULus Recognized		Approval ID: E473195-20160303		
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
keine		250 V	40 A	-
				-

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Classifications

ECLASS

ECLASS-13.0	27144705
ECLASS-15.0	27144705

ETIM

ETIM 9.0	EC002897
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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-50
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	2a292caa-a836-4a3d-b089-5511c322d226

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