AC charging cable - EV-TAG3PK-1AC32A-7,5M6,0ESBK01 - 1628012

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CHARX connect, Mobile AC charging cable with vehicle charging connector and infrastructure charging plug, with protective caps, Housing color black-gray, with locking option for padlock, for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets, compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE), Type 1, Type 2, IEC 62196-2, SAE J1772, 32 A / 250 V (AC), C-Line, “PHOENIX CONTACT” logo, cable: 7.5 m, black, straight, NOTE: Cable management may be required.

Product Description

Mobile AC charging cable with Vehicle Connector and Infrastructure Plug for charging electric vehicles (EV) with alternating current (AC), via type 1 Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets 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

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 370170
GTIN	4055626370170
Custom tariff number	85444290
Country of origin	Poland

Technical data

Product definition

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Technical data

Product definition

Type	Mobile AC charging cable
	with vehicle charging connector and infrastructure charging plug
	with protective caps
	Housing color black-gray
	with locking option for padlock
Application	for charging electric vehicles (EV) with alternating current (AC) via type 1 vehicle charging inlets
	compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE)
Affixed logo	“PHOENIX CONTACT” logo
Design	C-Line
Standards/regulations	IEC 62196-2
	SAE J1772
Charging standard	Type 1
	Type 2
Charging mode	Mode 3, Case B
Normative cable length restrictions	NOTE: Cable management may be required.
	Cable management is required in certain regions if the cable length exceeds 5.0 m (Switzerland) or 7.5 m (USA) (IEC 61851-1).

Dimensions

Height	151.1 mm (Vehicle charging connector)
	131.8 mm (Infrastructure charging plug)
Width	58 mm (Vehicle charging connector)
	58 mm (Infrastructure charging plug)
Depth	236.1 mm (Vehicle charging connector)
	233.4 mm (Infrastructure charging plug)
Conductor length	7.5 m

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	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)
	IP54 (Protective cap)

Electrical properties

Charging power (nominal operation)	8 kW
Number of phases	1

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Technical data

Electrical properties

Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	32 A
Rated voltage for power contacts	250 V AC
Number of signal contacts	2 (CP, CS)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Resistor coding	480 Ω (Lever actuated)
	150 Ω (Lever not actuated)

Mechanical properties

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

Design

Design line	C-Line
Housing color	black
Mating face color	black
Color handle area	gray
Actuating element color	silver
Color protective cap	black
Customer variations	On request

Material

Housing material	Plastic
Material handle area	Soft plastic
Actuating lever material	Metal
Material protective cap	Soft plastic
Material mating face	Plastic
Flammability rating	V0
Material surface of contacts	Ag

Cable

Cable structure	3 x 6.0 mm² + 1 x 0.5 mm²
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring class	Class 5
Wiring certifications	VDE

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Cable

External cable diameter	12.8 mm ±0.4 mm
Type of conductor	straight
Cable resistance	≤ 0.0033 Ω/m (based on a power core, at an ambient temperature of 20°C)
Outer sheath, material	TPE-U
External sheath, color	black
Minimum bending radius	96 mm (7.5 x diameter)
Cable weight	max. 305 kg/km

Locking

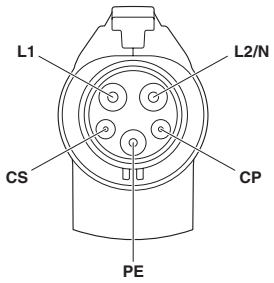
Locking type	Locking option for actuating lever with 4 mm U-lock

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

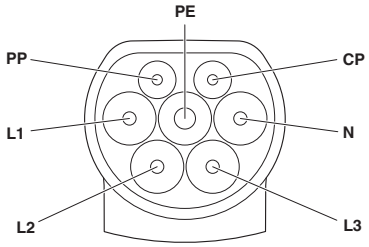
Drawings

Connection diagram



Pin assignment of the Vehicle Connector

Connection diagram



Pin assignment of Infrastructure Plug

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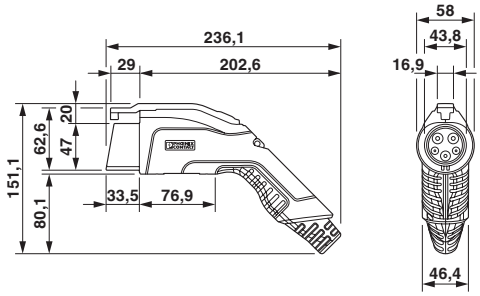
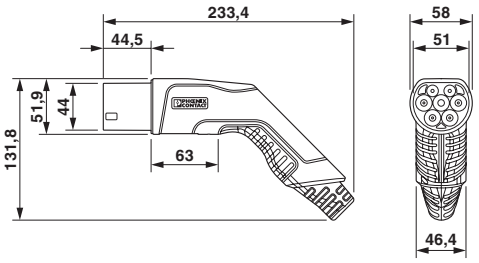
Dimensional drawing



Vehicle connector

Dimensional drawing



Infrastructure plug

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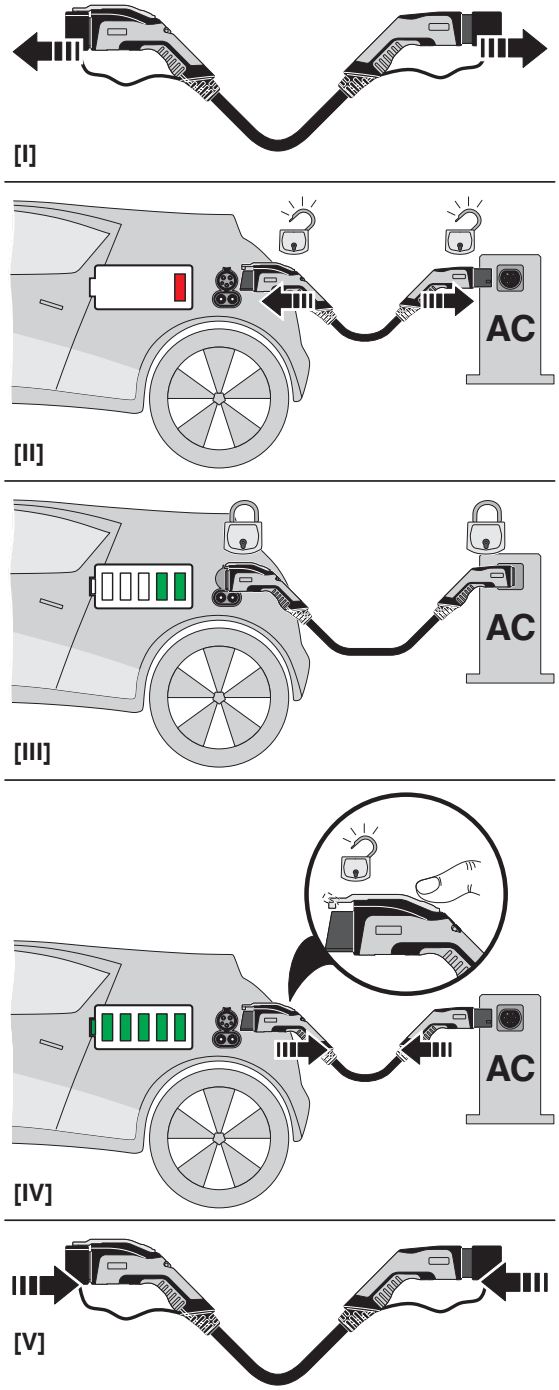
Schematic diagram



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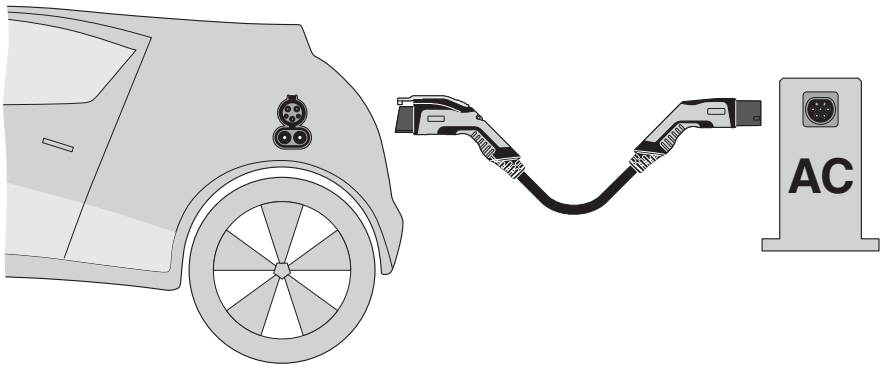
Schematic diagram



Terminology definition

Classifications

eCl@ss

eCl@ss 10.0.1	27144705
eCl@ss 11.0	27144705
eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001
eCl@ss 9.0	27144705

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 6.0	EC002897
ETIM 7.0	EC002897

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522

AC charging cable - EV-TAG3PK-1AC32A-7,5M6,0ESBK01 - 1628012

Classifications

UNSPSC

UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

Approvals

Approvals

Approvals

IECEE CB Scheme / VDE Zeichengenehmigung

Ex Approvals

Approval details

IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-65897

Nominal voltage UN	250 V
Nominal current IN	32 A

VDE Zeichengenehmigung	VDE	http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx	40045426

Nominal voltage UN	250 V
Nominal current IN	32 A

Accessories

Accessories

Adhesive label

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Accessories

Label - EV-LABEL-B - 1309758

CHARX connect, Label, accordance to DIN EN 17186, for AC charging cable, DIN EN 17186, Marking B for AC type 1 vehicle charging connectors with metric charging cable and type 1 vehicle charging inlets

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Label - EV-LABEL-C-SO - 1315521

CHARX connect, Label, for AC charging cables and infrastructure charging sockets, DIN EN 17186, Marking C for AC type 2 infrastructure charging plugs and type 2 infrastructure charging sockets

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Charging connector holder

Charging connector holder - EV-T1AC-PARK - 1624139

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

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Infrastructure socket outlet

Set - EV-T2M3SO12-3P-P-SET - 1164422

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Premium with LED cover, “PHOENIX CONTACT” logo

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Set - EV-T2M3SO12-4P-P-SET - 1164423

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with temperature sensors, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Premium with LED cover, “PHOENIX CONTACT” logo

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Accessories

Set - EV-T2M3SO12-3P-BL-SET - 1268358

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Basic with LED cover, “PHOENIX CONTACT” logo

Set - EV-T2M3SO12-4P-BL-SET - 1268355

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, with LED status indicator within the protective cover, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Basic with LED cover, “PHOENIX CONTACT” logo

Set - EV-T2M3SO12-3P-B-SET - 1164420

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 3-position, Rear panel mounting, M5 thread, Basic, “PHOENIX CONTACT” logo

Set - EV-T2M3SO12-4P-B-SET - 1164417

CHARX connect, Set, Combination of infrastructure charging socket, protective cover, and rear protective cap for strain relief and touch protection, rear protective cover screw connection, can be reconnected, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), without cable, Locking actuator: 12 V, 4-position, Rear panel mounting, M5 thread, Basic, “PHOENIX CONTACT” logo