

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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 GB/T vehicle charging inlets, compatible with type 2 infrastructure charging sockets at charging stations for electromobility (EVSE), GB/T, Type 2, IEC 62196-2, GB/T 20234.2-2015, 32 A / 440 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

Product Description


Mobile AC charging cable with Vehicle Connector and Infrastructure Plug for charging electric vehicles (EV) with alternating current (AC), via GB/T Vehicle Inlets, compatible with type 2 Infrastructure Socket Outlets at charging stations for E-Mobility (EVSE)

Your advantages

- ✓ Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- ✓ Silver-plated surface of the power and signal contacts
- ✓ Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- ✓ Convenient handling, thanks to the ergonomic handle and additional, rubber grip components
- ✓ Tested in accordance with selected tests of automotive standards LV124, LV214, LV215-2
- ✓ Reliable function of the locking lever with additional seal
- ✓ Optional locking option with a U-lock
- ✓ Consistent longitudinal water tightness prevents water ingress in the cable



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 370156
GTIN	4055626370156
Weight per Piece (excluding packing)	3,920.000 g
Custom tariff number	85444290
Country of origin	Germany

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

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 GB/T 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
	GB/T 20234.2-2015
Charging standard	GB/T
	Type 2
Charging mode	Mode 3, Case B

Dimensions

Height	151.3 mm (Vehicle charging connector)
	131.8 mm (Infrastructure charging plug)
Width	58 mm (Vehicle charging connector)
	58 mm (Infrastructure charging plug)
Depth	238.7 mm (Vehicle charging connector)
	233.4 mm (Infrastructure charging plug)
Conductor length	5 m
Stripping length	60 mm ±15 mm

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	IP55 (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)	24.39 kW
Number of phases	3
Number of power contacts	5 (L1, L2, L3, N, PE)

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

Technical data

Electrical properties

Rated current of power contacts	32 A
Rated voltage for power contacts	440 V
Number of signal contacts	2 (CP, CC)
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	220 Ω + 3,3 kΩ (Lever actuated)
	220 Ω (Lever not actuated)

Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 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
Material surface of contacts	Ag

Cable

Cable structure	5 x 6.0 mm ² + 1 x 0.5 mm ²
Wiring standards/regulations	prEN 50620 / DIN EN 50620
Wiring class	Class 5
Wiring certifications	VDE
External cable diameter	17 mm ±0.4 mm
Type of conductor	straight

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

Technical data

Cable

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	127.5 mm (7.5 x diameter)
Cable weight	max. 505 kg/km

Locking

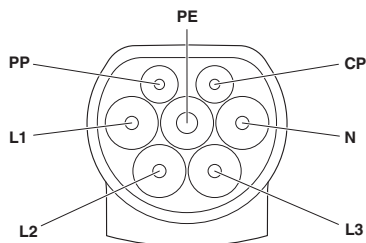
Locking type	Locking option for actuating lever with 4 mm U-lock
--------------	---

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

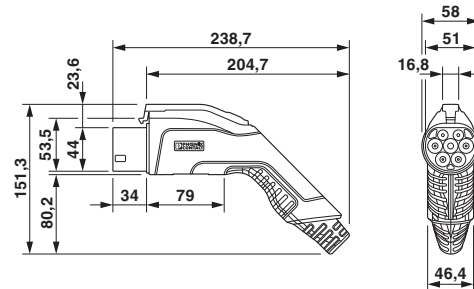
Drawings

Connection diagram



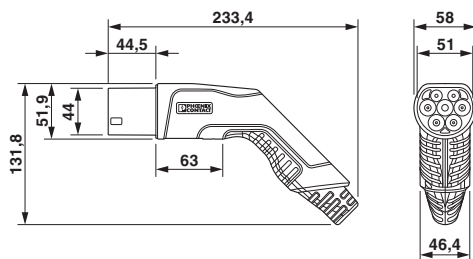
Pin assignment of Infrastructure Plug

Dimensional drawing



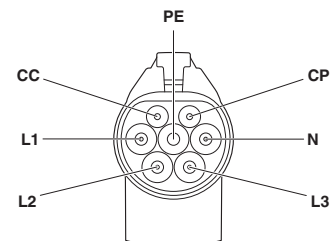
Vehicle connector

Dimensional drawing



Infrastructure plug

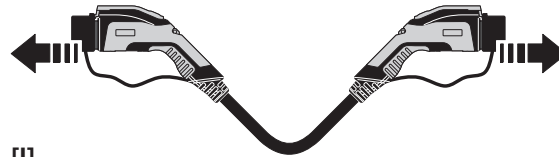
Schematic diagram



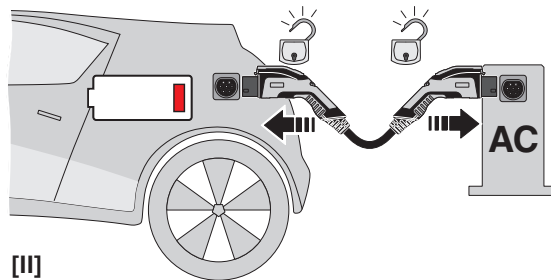
Pin assignment of the Vehicle Connector

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

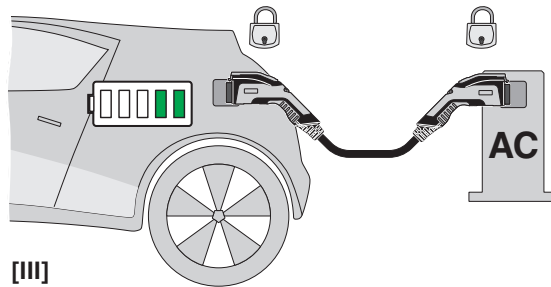
Schematic diagram



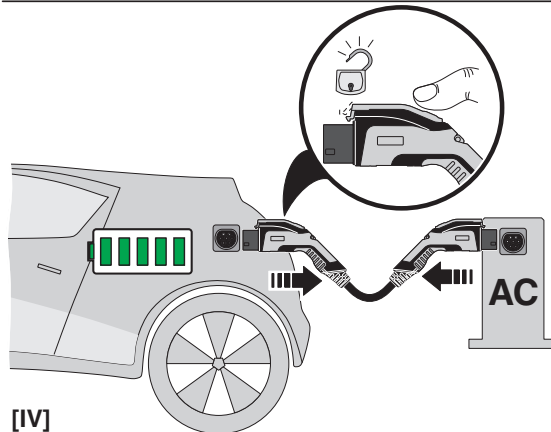
[I]



[II]



[III]



[IV]



[V]

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

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
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

Accessories

Accessories

Charging connector holder

Charging connector holder - EV-GBAC-PARK - 1624142



CHARX connect, Charging connector holder, for vehicle charging connectors on charging stations (EVSE), GB/T, GB/T 20234.2, Front mounting

AC charging cable - EV-TCG3PK-3AC32A-5,0M6,0ESBK01 - 1628001

Accessories

Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E10 - 1405214



CHARX connect, Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

Socket Outlet - EV-T2M3SE24-3AC32A-0,7M6,0E10 - 1405216



CHARX connect, Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 24 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo