

Vehicle Connector test adapter - EV-T2MBIE24-1ACDC-INFRA - 1410506

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Vehicle Connector test adapter, As a test adapter for charging station tests, CCS type 2, Combined Charging System, IEC 62196-3, 125 A / 850 V (DC), 20 A / 250 V (AC), Single wires, length: 2 m, Locking actuator: 24 V, 4-position, Front and rear mounting, Generation 1

Product Description

Special Vehicle Inlet for charging station tests, solely for laboratory tests, tests with charging stations (EVSE), and further analyses on the infrastructure side - not for installation in any type of vehicle, cannot be used outside of the laboratory area

Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356898942

Technical data

Product definition

Application	As a test adapter for charging station tests
Design	Generation 1
Standards/regulations	IEC 62196-3
Charging standard	CCS type 2
	Combined Charging System
Charging mode	Mode 2, 3, 4
Note on the connection method	Crimp connection, cannot be disconnected

Dimensions

Height	116 mm
Width	76 mm
Depth	94 mm
Bore dimensions	116 mm x 46 mm / 116 mm x 70 mm
Conductor length	2 m (AC cables)

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Technical data

Dimensions

	2 m (DC cables)
	0.5 m (Locking actuator cables)
Cable structure	2 x 35 mm ² + 1 x 25 mm ² + 2 x 2.5 mm ² + 3 x 2 x 0.5 mm ²
Type of conductor	Single wires

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)
	IP55 (with protective cap)

Electrical properties

Maximum charging power	106 kVA
Type of charging current	DC, AC 1-phase
Number of phases	1
Number of power contacts	5 (L1, N, PE, DC+, DC-)
Rated current of power contacts	125 A DC
	20 A AC
Rated voltage for power contacts	250 V AC
	850 V DC
Number of signal contacts	2 (CP, PP)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation with modulated Powerline communication according to ISO/IEC 15118 / DIN SPEC 70121
Note on the connection method	Crimp connection, cannot be disconnected
Insulation resistance of neighboring contacts	> 5 kΩ
Temperature monitoring	2x Pt 1000

Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

Mounting

Possible mounting positions	Front and rear mounting
Restrictions to mounting position	Only 0 to 90 degree frontal inclination possible, see figure
Mounting position of the locking actuator	Left-side
Mounting hole diameter	6.80 mm (ø)

Design

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Technical data

Design

Design line	Generation 1
Housing color	black
Customer variations	On request

Material

Material	Plastic
Material surface of contacts	Ag

Locking

Locking type	Locking in the inserted state with a locking mechanism
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Locking actuator

Number of positions of the connectors	4
Operating voltage	24 V (Typical power supply at the motor)
Possible power supply range at the motor	22 V ... 26 V
Maximum voltage for locking detection	30 V
Typical motor current for locking	0.05 A
Reverse current of the motor	max. 0.5 A
Max. dwell time with reverse current	1000 ms
Recommended adaptation time	600 ms
Pause time after entry or exit path	3 s
Service life insertion cycles	> 10000 load cycles
Ambient temperature (operation)	-30 °C ... 50 °C
Cable length	0.5 m
Cable structure	4 x 0.5 mm ²
Lock recognition	available
Mechanical emergency release	available

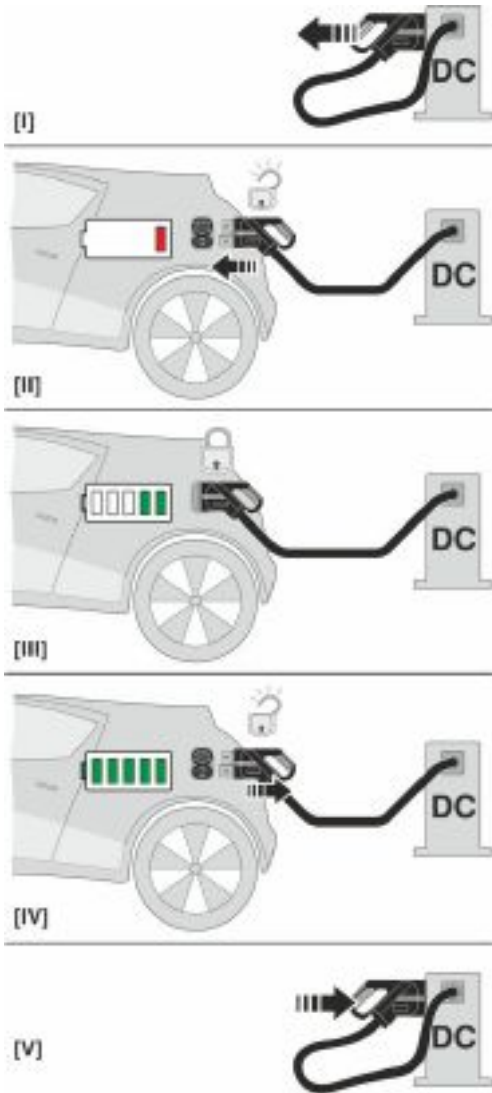
Temperature sensors

Type of sensor	Pt 1000
Standards/regulations	DIN EN 60751
Recommended measured current	1 mA (1 V at 0 °C)
Tolerance at the sensor with the recommended measured current	±1K
Temperature range	-50 °C ... 130 °C
Temperature coefficient (TCR)	3850 ppm/K
Long-term stability (max. R0-Drift)	0.06 % (After 1000 hours at 130 °C)
Shutdown temperature	90 °C equivalent to a Pt 1000 value of 1346.5 Ω

Drawings

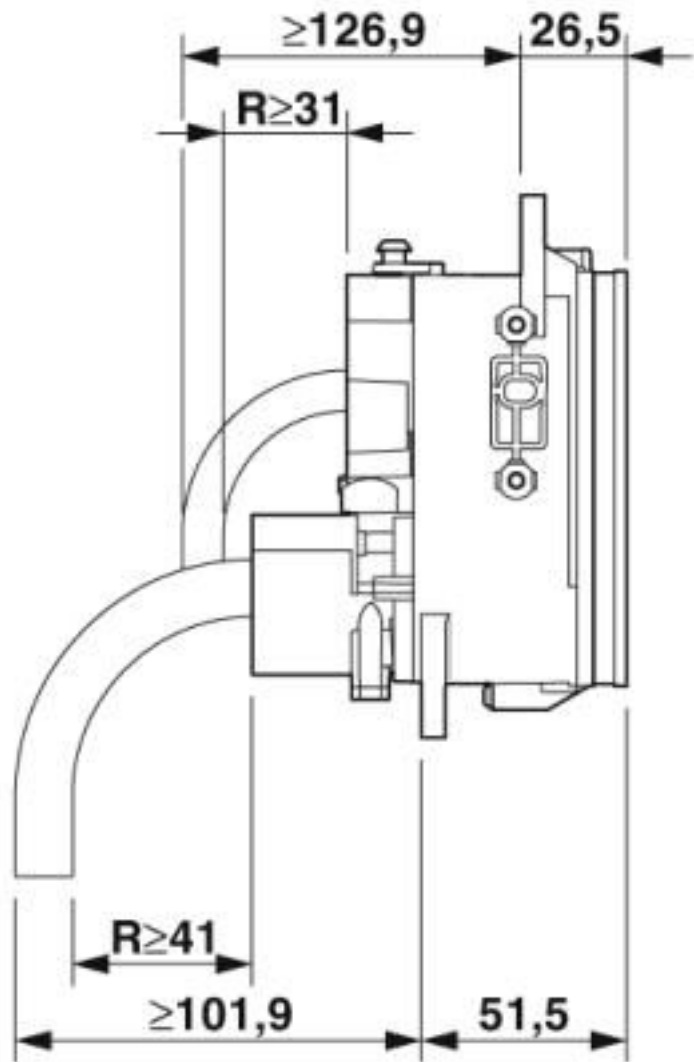
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Schematic diagram



Operating instructions

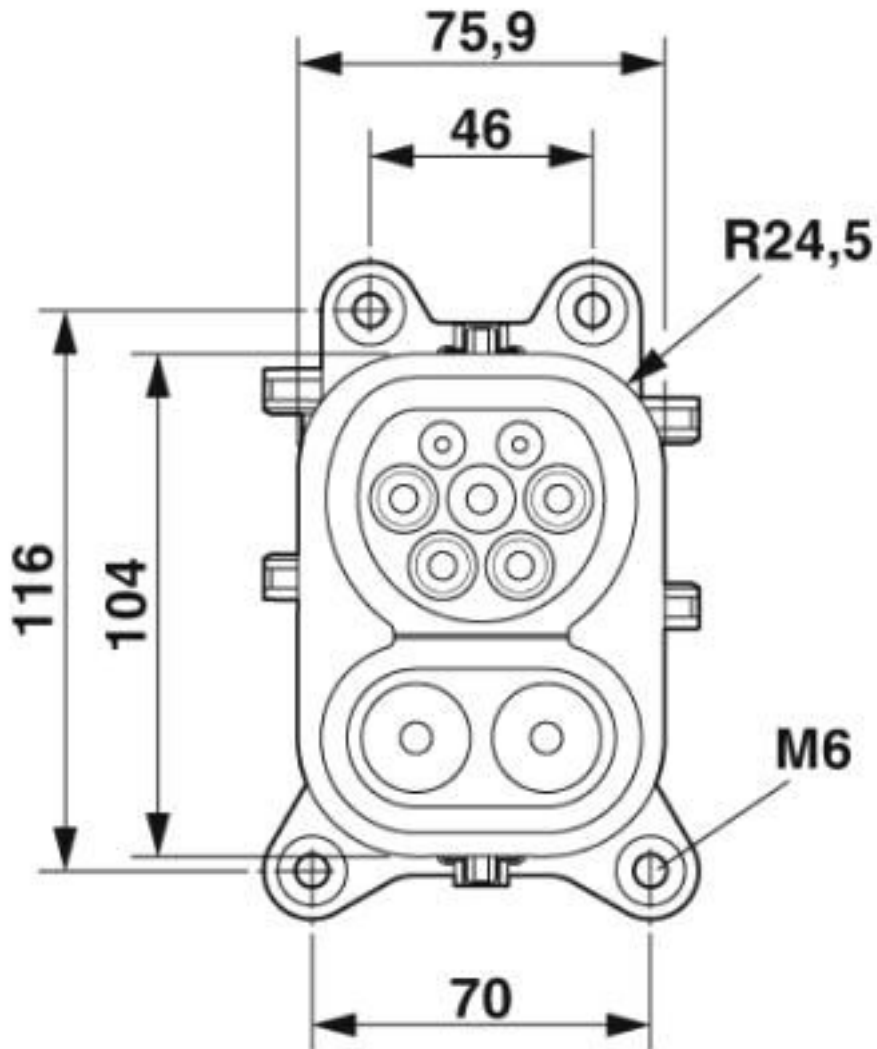
Dimensional drawing



Dimensional drawing, side view

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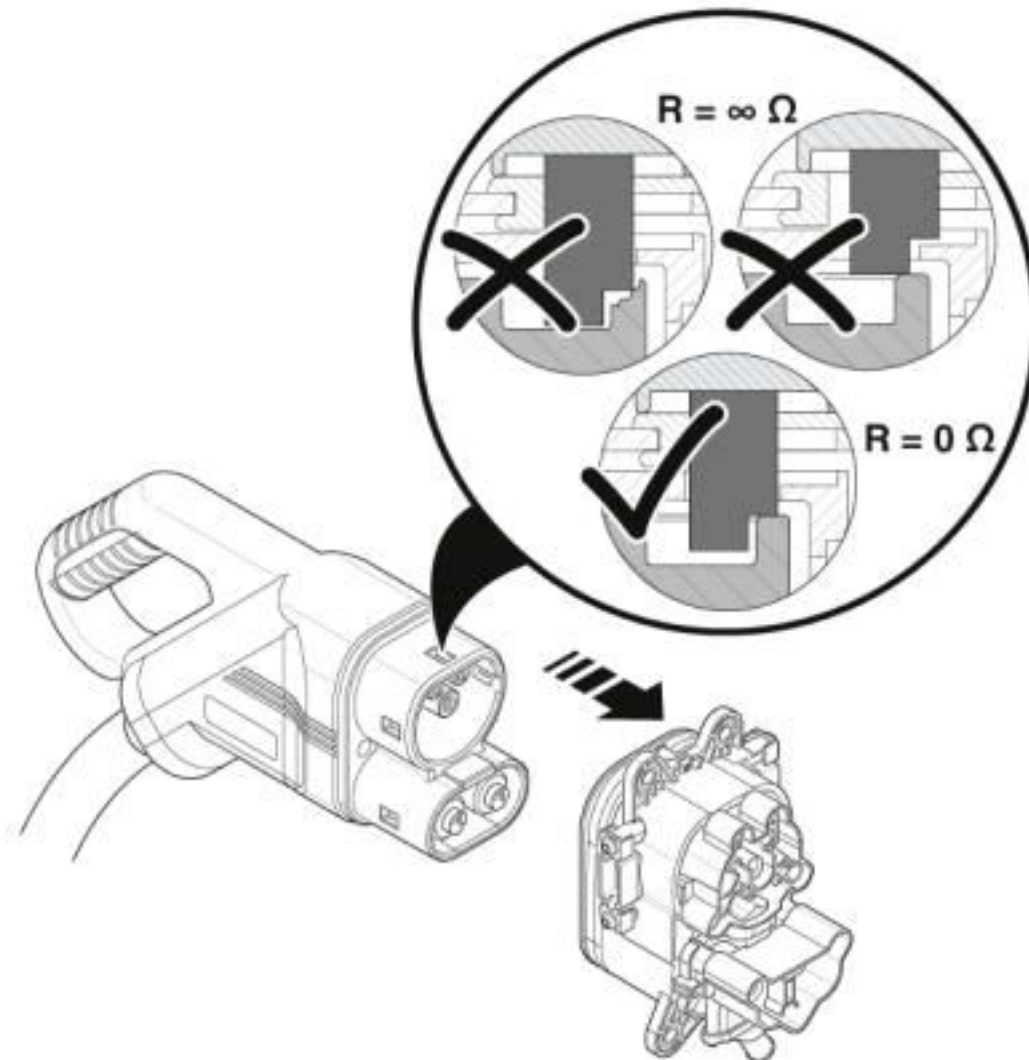
Dimensional drawing



Dimensional drawing top view

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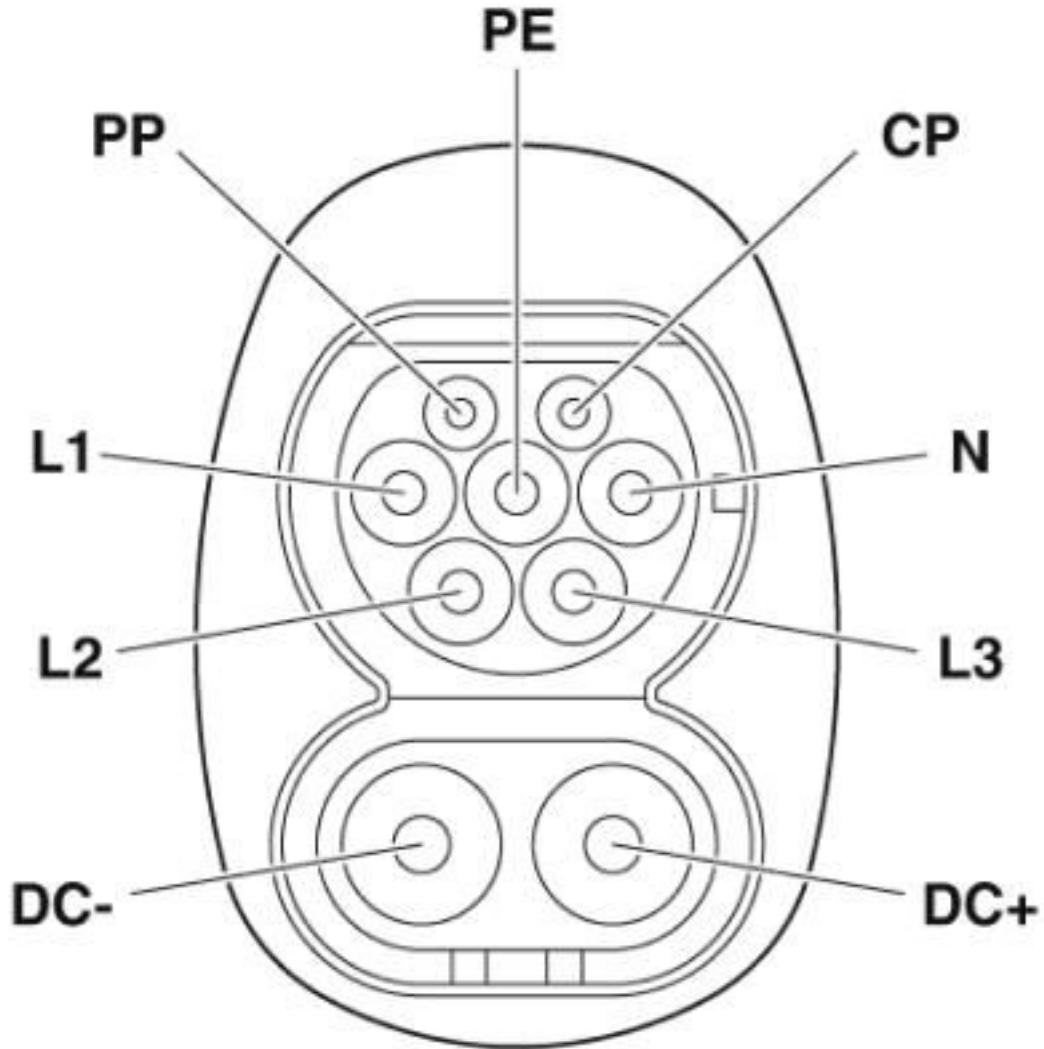
Schematic diagram



Detection for Vehicle Connector

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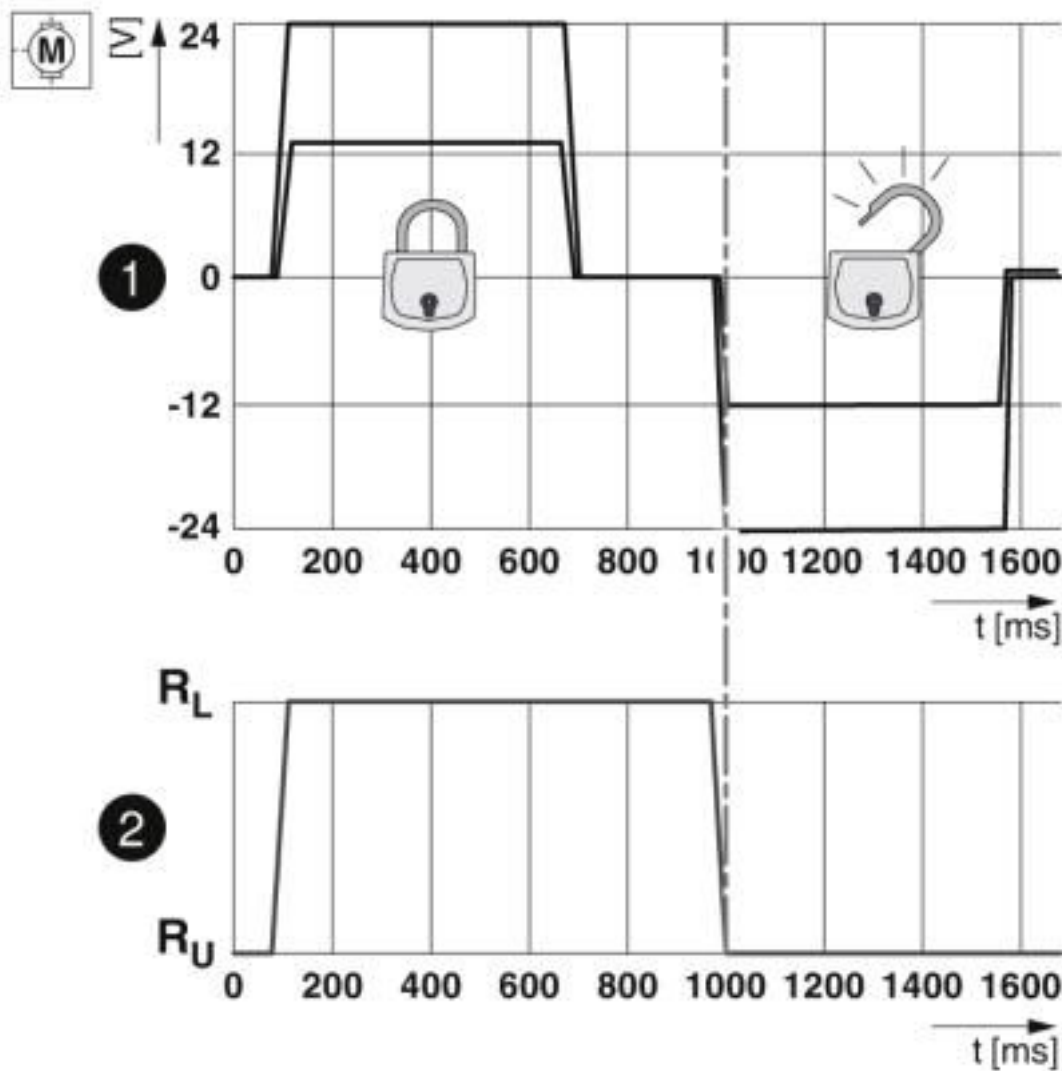
Connection diagram



Pin assignment of Vehicle Inlet

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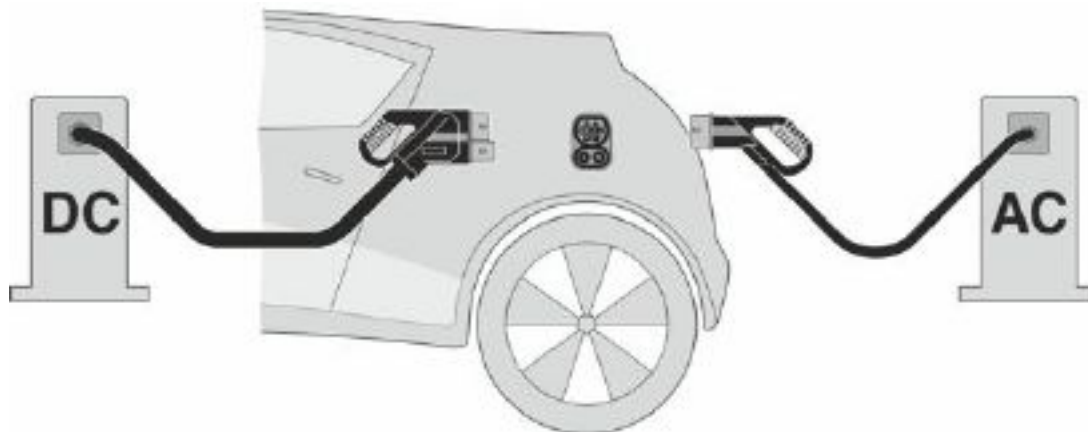
Diagram



Locking states of the locking actuator

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Schematic diagram



The Combined Charging System (CCS) principle - standard-compliant charging system for electric vehicles, which supports both conventional AC charging and fast DC charging. Both Vehicle Connectors fit into the CCS Vehicle Inlet.

Classifications

eCI@ss

eCI@ss 4.1	27260701
eCI@ss 5.1	27379100
eCI@ss 6.0	27379200
eCI@ss 7.0	27379201
eCI@ss 8.0	27379201

ETIM

ETIM 4.0	EC002498
ETIM 5.0	EC002061
ETIM 6.0	EC002884

UNSPSC

UNSPSC 13.2	39121522
UNSPSC 19.0	39121522

Accessories

Accessories

AC charging cable

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Accessories

AC charging cable - EV-T2M3C-1AC20A-5,0M2,5ESBK00 - 1621804



Design line 1, AC charging cable with Vehicle Connector, open cable end, with protective cap, Type 2, IEC 62196-2, 20 A / 250 V (AC), cable: 5 m, black, straight

AC charging cable - EV-T2G3C-1AC20A-5,0M2,5ESBK01 - 1627354



AC charging cable, with vehicle charging connector and open cable end, with protective cap, Housing color black-gray, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 20 A / 250 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

DC charging cable

DC charging cable - EV-T2M4CC-DC125A-5,0M50ESBK00 - 1409060



DC charging cable, with vehicle charging connector and open cable end, Housing color black-gray, For charging electric vehicles (EV) with direct current (DC), for installation at charging stations for electromobility (EVSE), CCS type 2, Combined Charging System, IEC 62196-3, 125 A / 1000 V (DC), D-Line 1.0, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

Locking actuator

Locking - EV-T2M3S-E-LOCK12V - 1624129



Locking, For attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, length: 0.5 m, Locking actuator: 12 V, 4-position, Can be positioned flexibly, Generation 1

Locking - EV-T2M3S-E-LOCK24V - 1622317



Locking, For attaching to infrastructure charging sockets, Type 2, GB/T, IEC 61851-1, length: 0.5 m, Locking actuator: 24 V, 4-position, Can be positioned flexibly, Generation 1

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