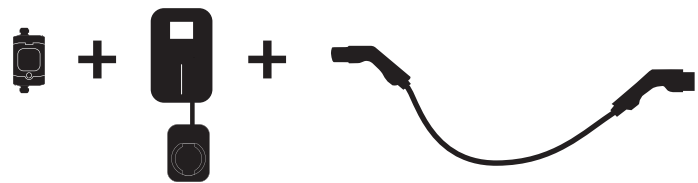


UP TO 900 €**
KFW FUNDING
NOW!

SYSTEM SOLUTIONS.
FOR ELECTROMOBILITY.

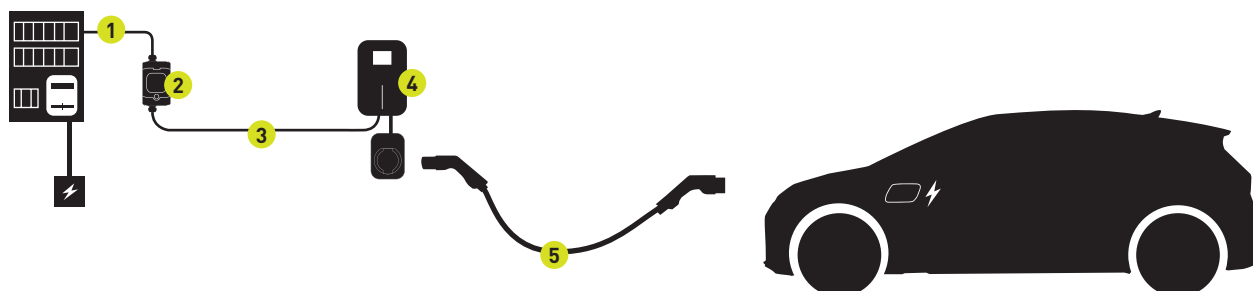


connected to power



ONE SYSTEM. MANY POSSIBILITIES.

From the main distributor to your electric vehicle, everything from a single source 



EVtap® system components

- 1 Cable from main distributor to sub-distributor
- 2 Sub-distributor in 2 variants
- 3 Cable from distributor to wallbox
- 4 Wallbox
- 5 Charging cable for electric vehicles

smart.
secure.
charging.

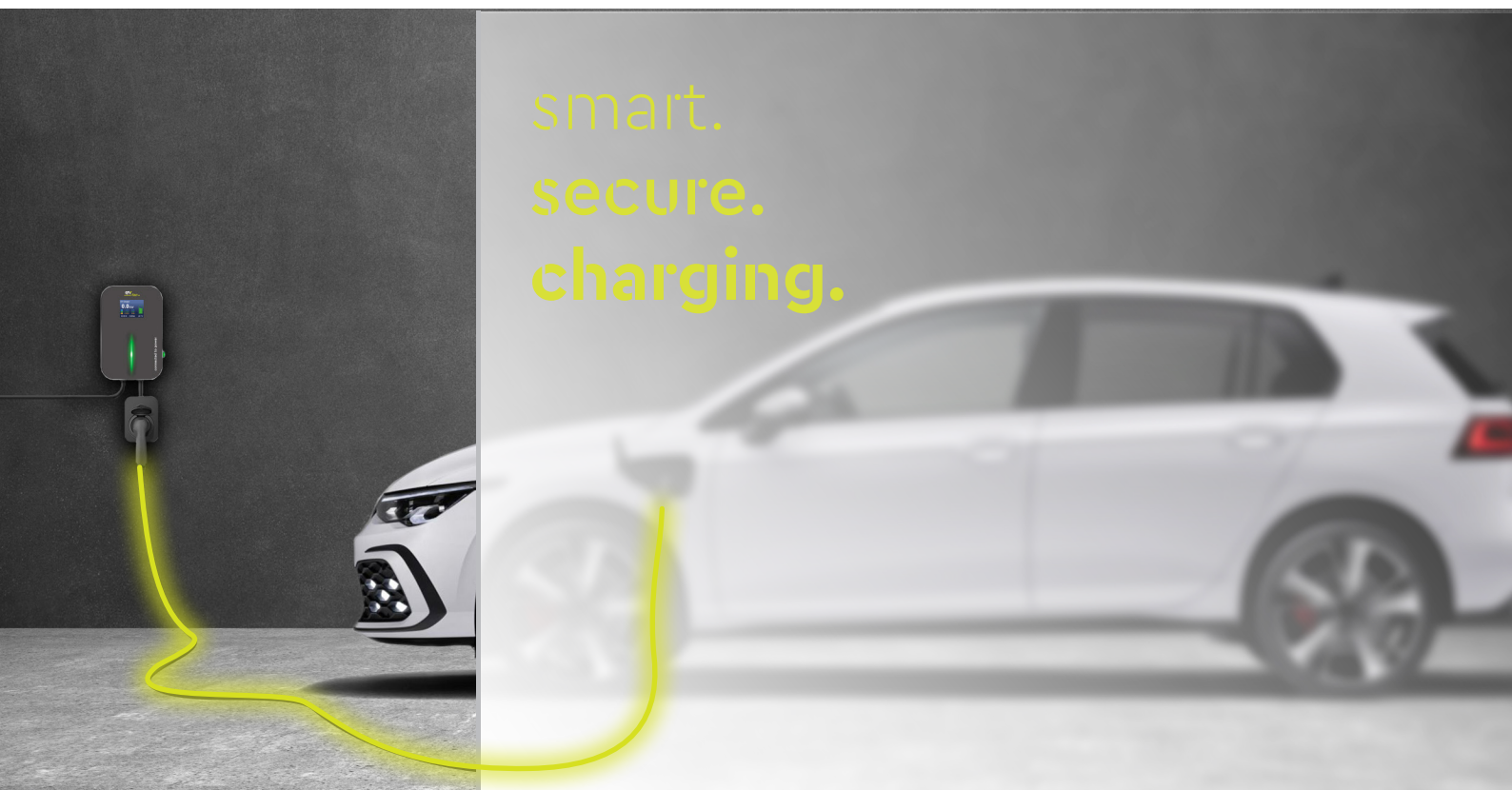


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Electromobility your daily companion.

Charging Electric and PHEV vehicles occupies an important place in our everyday lives and places new demands on the entire energy supply. The increasing number of PV systems (some with storage functionality) enables convenient charging of electric vehicles at home. Wallboxes, charging stations, EV charging cables and distribution boxes will become important components of the future power grid. Vehicles can be charged easily and smartly at the electric „pump“.

Compact. Smart. Powerful.

With the EVtap® charging cable, HIK and HIS offer a special product with clear design features, attractive, functional and compatible with most makes of car and applications.

Leading by a distance. Indispensable.

Our specially developed EVtap® charging cable is an ideal companion for every electric vehicle and is available in different variants and lengths. Options for wallbox and ICCB manufacturers are available. We can configure variants such as open cable ends, spirals, CEE or Schuko plugs on request. The protective caps offer protection against water and dirt even in adverse conditions. The highest quality standards are the bedrock of the production process and the choice of components.



THE WALLBOX. CORE VALUE.

11kW



connected to power

TECHNICAL DATA.*

11 kW WALLBOX.



Item number	EV-WB-11-00-03-AL
Standard	IEC 61851, IEC 61439-7
Nominal voltage	AC 230V / 400 V
Rated frequency	50 / 60 HZ
Charging capacity	11 kW
Rated current	16 A
Phases	3
Connection type	Type 2 according to IEC 62196-2
Charging mode	Mode 3
Residual Current operated Circuit-Breaker (RCCB)	Typ A + 6mA DC
Degree of protection/ protection class IP	IP66
Standby consumption	<8 W
App available	YES
RFID available	NO
Wifi / Bluetooth available	YES
Display	3,5" (inch)LCD color display
LED status indicator light	YES (green)
Overvoltage protection	YES
Overload protection	YES
Short circuit protection	YES
Temperature monitoring	YES
Lightning protection	YES
Power adjustment	YES via APP
Dimensions	29,5 / 19,5 / 6,5 cm
Weight	6 – 8 Kg
Ambient air temperature	-40°C bis +75°C
Altitude	max. 2000m above sea level
Relative humidity	max. 95% (non-condensing)
Mounting method	wall mounted
Standards	CE, RoHS

KfW
FUNDING
440

Secure KfW funding for your charging station now!

With the new KfW funding initiative „Charging stations for electric cars - residential buildings (440)“, you will receive a grant of € 900 gross for the purchase and installation of your private charging station**.



EVSE Master



Convenient and easy to control via the app

The EVSE Master App offers the function to enable you to control the starting and stopping of your charging processes (via WLAN or Bluetooth). Evaluation and archiving of the charging history as well as user management and configuration of the charging power are further important functions of the app.

EV+ PHEV

Charges most Electric and Plug-in Hybrid vehicles.

Thanks to the wide range of charging capacity options available, the EVtap® Wallbox is compatible with almost every electric car model available.



Ensures your battery is fully charged every morning when you leave the house.

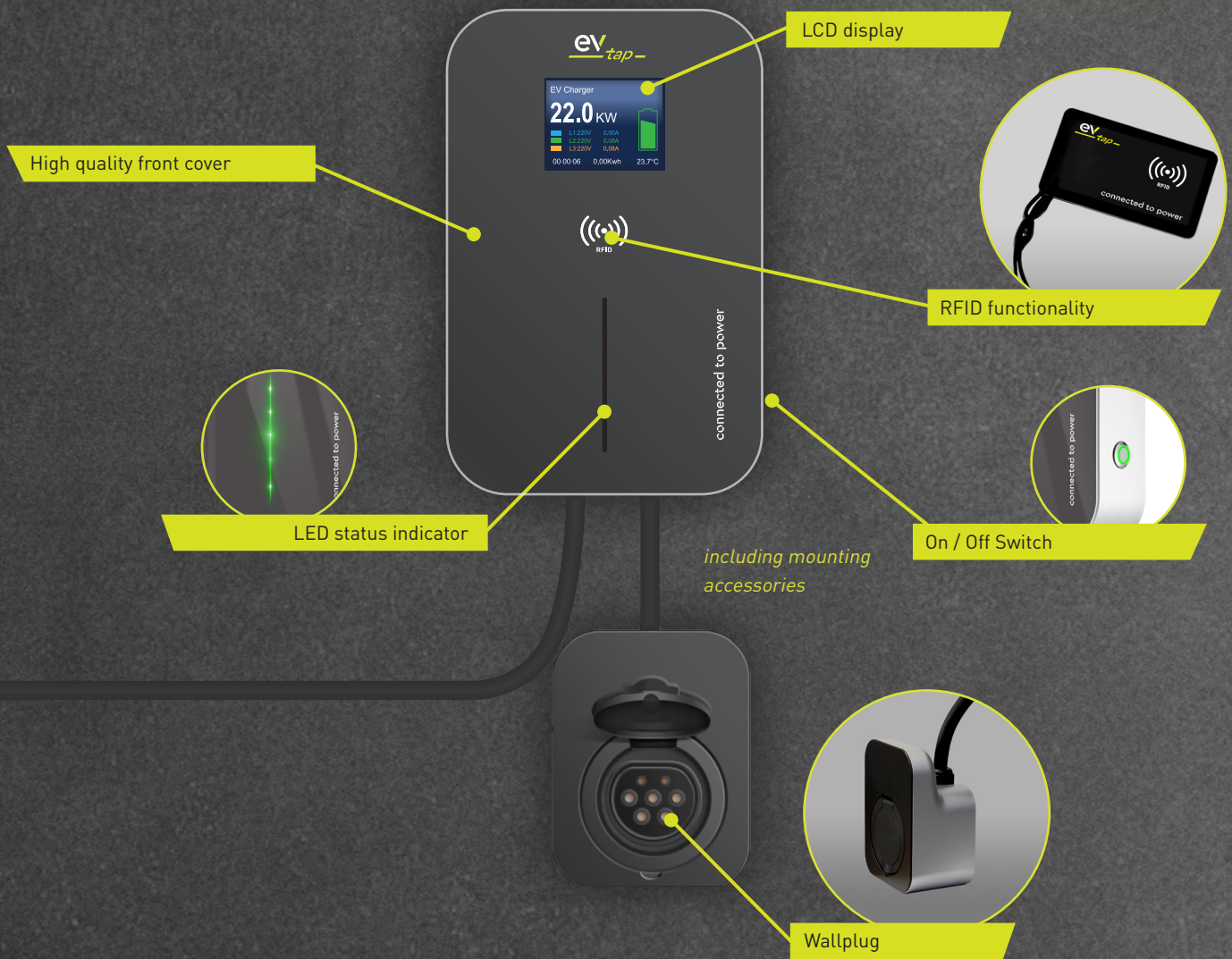
Avoid the stress of not being able to find an available charging station and using cost intensive, public charging stations.

*subject to technical changes

** Subject to the conditions and the approval of the KfW

THE WALLBOX.
CORE VALUE.

22kW



connected to power

TECHNICAL DATA.*

22 kW WALLBOX.

Item number	EV-WB-22-01-03-AL
Standard	IEC 61851, IEC 61439-7
Nominal voltage	AC 230V / 400 V
Rated frequency	50 / 60 HZ
Charging capacity	22 kW
Rated current	32 A
Phases	3
Connection type	Type 2 according to IEC 62196-2
Charging mode	Mode 3
Residual Current operated Circuit-Breaker (RCCB)	Typ A + 6mA DC
Degree of protection/ protection class IP	IP66
Standby consumption	<8 W
App available	NO
RFID available	YES
Wifi / Bluetooth available	NO
Display	3,5" (inch)LCD color display
LED status indicator light	YES (green)
Overvoltage protection	YES
Overload protection	YES
Short circuit protection	YES
Temperature monitoring	YES
Lightning protection	YES
Power adjustment	NO
Dimensions	29,5 / 19,5 / 6,5 cm
Weight	6 – 8 Kg
Ambient air temperature	-40°C bis +75°C
Altitude	max. 2000m above sea level
Relative humidity	max. 95% (non-condensing)
Mounting method	Wall mounted
Standards	CE, RoHS

* subject to technical changes



Practical user management thanks to RFID technology

Modern access protection via RFID chip card. Simply use your car charging cable, connect it to the E-car and the wallbox. After activation via the RFID card, the charging process starts immediately. This charging station is suitable for all types of parking spaces.



All-round safety for battery and vehicle

Integrated temperature monitoring, voltage fluctuation protection and DC fault current detection ensure that your battery is completely protected and can be used most effectively. By reducing external influences, the longest possible service life and reliability for both battery and vehicle are ensured.

EV+ PHEV

Charges most Electric and Plug-in Hybrid vehicles.

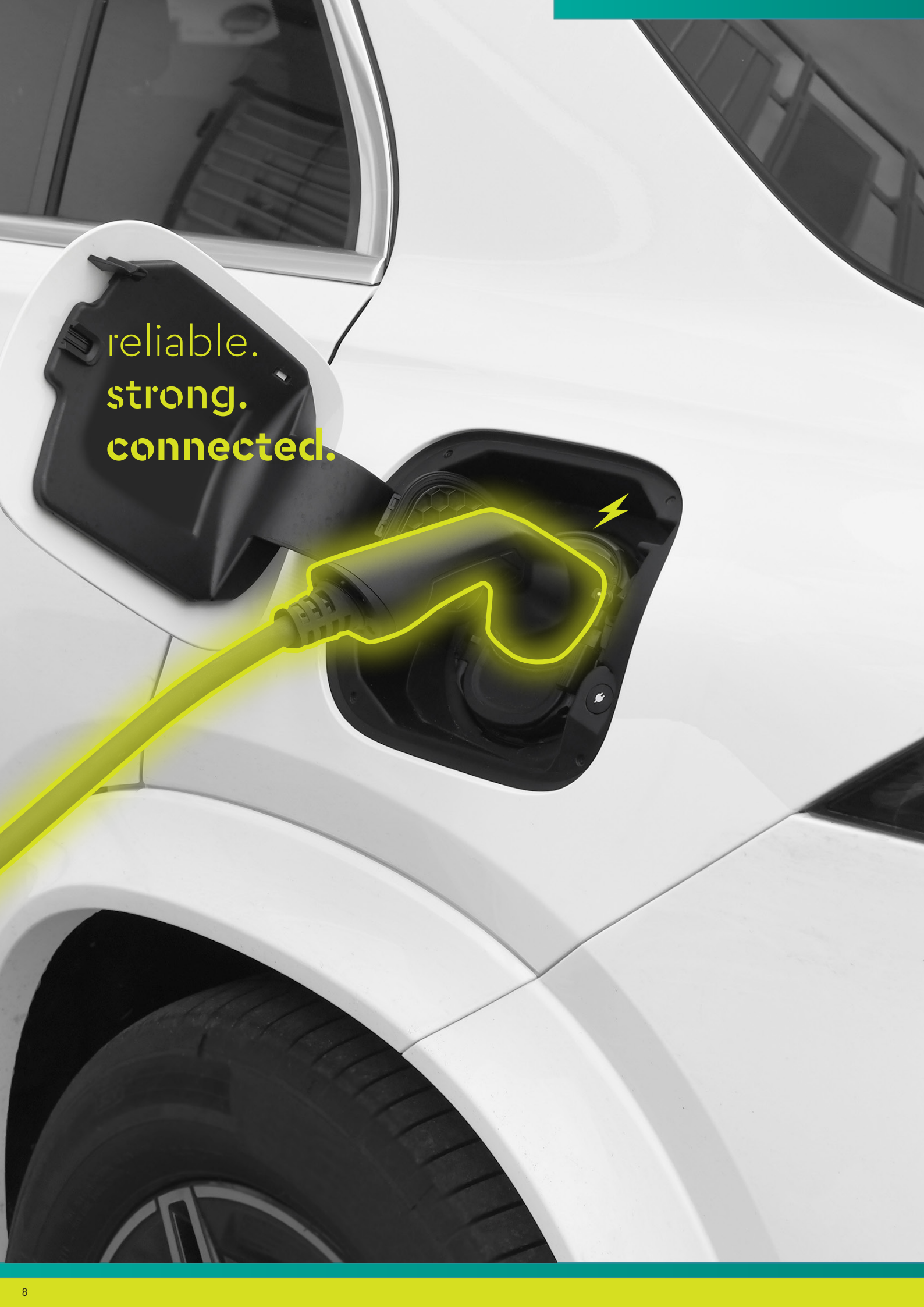
Thanks to the wide range of charging capacity options available, the EVtap® Wallbox is compatible with almost every electric car model available.



Ensures your battery is fully charged every morning when you leave the house.

Avoid the stress of not being able to find an available charging station and using cost intensive, public charging stations.

reliable.
strong.
connected.



CHARGING ON THE MOVE. WITHOUT COMPROMISE.

The EVtap® charging cable offers the following advantages:

- Increased safety thanks to temperature monitoring of the power contacts.
- Optimised battery charging thanks to signal contacts for communication between vehicle and charging station
- Robust design and long service life due to high impact, pressure and rollover resistance
- Standardised Type 2 charging plug, compatible with most electric and PHEV vehicles (IEC 62196-2)
- Full protection against contact and splashing water from all directions thanks to IP54 certification and protective cap
- Locking of the cable possible on the station and vehicle side
- High-quality HIKRA® cable in variable lengths with mineral oil and diesel resistance (IEC 628931)
- Supports 1- and 3-phase charging with 230V/400V, maximum 32A



THE CHARGING CABLE.

BEST CONNECTION.

The EVtap® charging cable is your reliable partner for fast charging of electric and hybrid vehicles. With a Mode-3 Type-2 charging cable, all public AC charging stations throughout Europe can be used, so this cable belongs in the boot of every electric.

Mode-3 Type-2 ensures single-phase or three-phase AC fast charging with up to 22 kW. In Mode-3, the required charging power is determined by communication between the charging station and the vehicle.



Plug and connector
(IEC 62196-2)

HIKRA® eVC H07BZ5-F
EN50620, IEC 62893

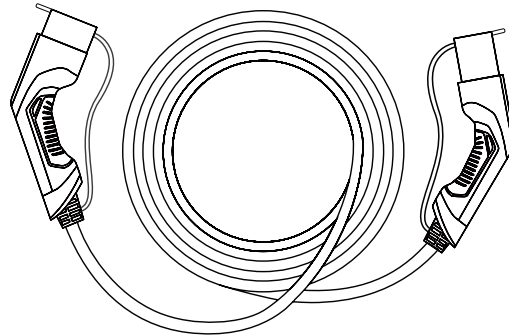
- Increased safety through temperature monitoring
- Optimised battery charging
- Robust design and 25-year service life expectancy
- Standardised type 2 charging plug (IEC 62196-2)





TECHNICAL DATA.*

CHARGING CABLE.

- 1 and 3-phase charging
- Comfortable handling
- Low insertion and extraction forces
- High quality and robust
- Cable lengths of 3, 5 and 7 metres
- HIKRA® EVC cable



Item number	EV-CC-F01-M01-XXXX-ST			EV-CC-F02-M02-XXXX-ST		
Plug and connector	IEC 62196-2			IEC 62196-2		
Connector type						
	Type-2 connector to type-2 plug			Typ-2 connector to type2 Stecker		
Charging capacity	11 kW			22 kW		
Rated current	20 A			32 A		
Load type	AC					
Nominal voltage	480 V					
Rated frequency	50 Hz					
Number of phases	3					
Number of power contacts	5 [L1, L2, L3, N, PE]					
Insertion/withdrawal cycles	> 10.000					
Insertion force /withdrawal force	< 100 N					
Operating temperature	-30° C to +50° C					
Protection class	IP54 with protective cap					
Type of conductor	straight, black					
Cable type	(HIKRA® EVC) H07BZ5-F according to EN 50620, IEC 62893					
Cable cross-section	5 x 2,5 mm ² + 0,5 mm ²			5 x 6 mm ² + 0,5 mm ²		
Cable diameter	12,80 ± 0,4 mm			16,5 ± 0,4 mm		
Conductor length/ cable length (meter)	3	5	7	3	5	7
Weight (Kg)	1,5	2,0	2,5	2,2	3,1	4,0

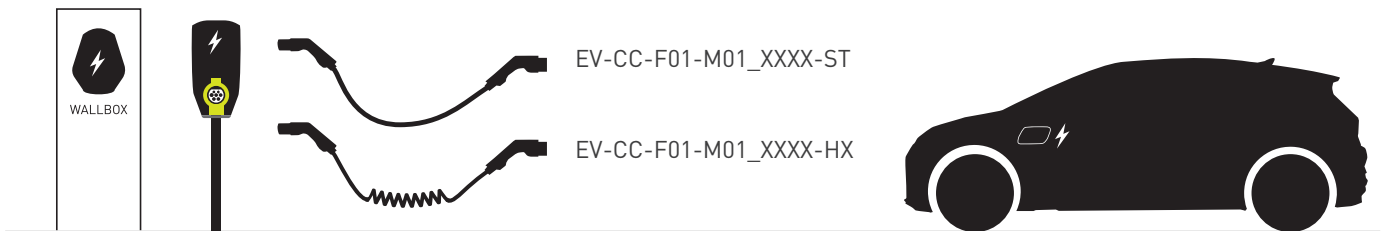
*further individual designs available on request

PRODUCT VARIANTS.*

OEM SOLUTIONS.

Our AC charging cables are suitable for many fields of application in different product variants. In addition to private use, the charging cables can also be used by wallbox and ICCB manufacturers. We are flexible and will develop and configure your customised solution in the field of electro-mobility. In everything, from the plug to the charging cable as desired, we are your reliable partner.

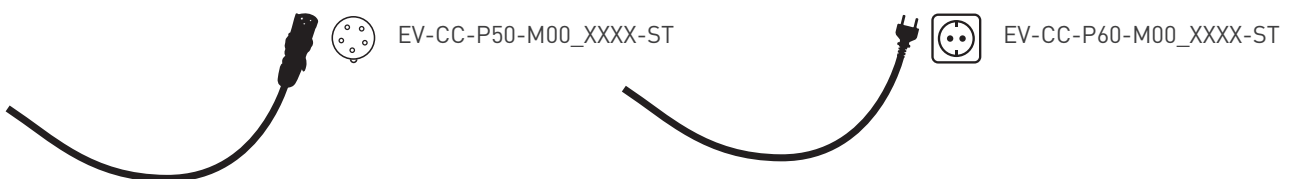
VARIANT 1 For connection to public **charging stations** or **wallboxes** at home



VARIANT 2 Type 2 coupling with open cable end for **wallbox manufacturers**



VARIANT 3 CEE or Schuko plug with open cable end for **manufacturers of control cabinets**



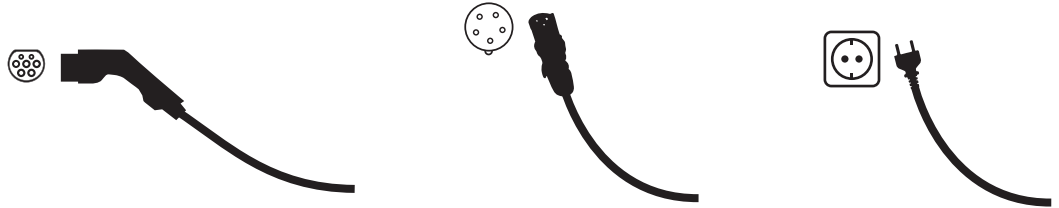
*subject to technical changes

connected to power

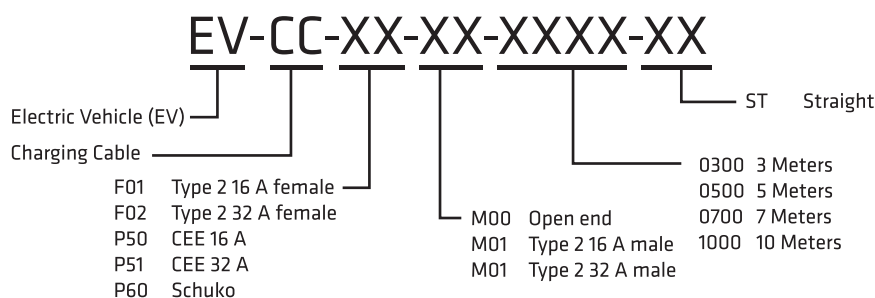


TECHNICAL DATA.*

OTHER VARIANTS.



Item number	EV-CC-F01-M00-XXXX-ST	EV-CC-F02-M00-XXXX-ST	EV-CC-P50-M00-XXXX-ST	EV-CC-P51-M00-XXXX-ST	EV-CC-P60-M00-XXXX-ST													
Plug and connector	IEC 62196-2	IEC 62196-2	IEC 60309		-													
Connector type	Type-2 connector to open end		CEE plug to open end		Schuko plug to open end													
Charging capacity	11 kW	22 kW	11 kW	22 kW	-													
Rated current	20 A	32 A	16 A	32 A	16 A													
Load type	AC																	
Nominal voltage	480 V		400 V		250 V													
Rated frequency	50 Hz		50 + 60 Hz		-													
Number of phases	3		3		1													
Number of power contacts	5 (L1, L2, L3, N, PE)		5 (L1, L2, L3, N, PE)		3 (L1, N, PE)													
Insertion/withdrawal cycles	> 10.000		-		-													
Insertion force, Withdrawal force	< 100 N		-		-													
Operating temperature	-30° C to +50° C		-		-													
Protection class	IP54 with protective cap		IP44		IP54													
Type of conductor	straight / black																	
Cable type	(HIKRA® EVC) H07BZ5-F according to EN 50620, IEC 62893																	
Cable cross section	5 x 2,5 mm ² + 0,5 mm ²		5 x 6 mm ² + 0,5 mm ²		3 x 2,5 mm ² + 0,5 mm ²													
Cable diameter	12,8 ± 0,4 mm		16,5 ± 0,4 mm		10,1 ± 0,3 mm													
Conductor length/ cable length (meter)	3	5	7	3	5	7	3	5	7	10	3	5	7	10	3	5	7	10
Weight (Kg)	1,1	1,6	2,0	1,8	2,7	3,6	0,9	1,3	1,8	2,5	1,6	2,5	3,5	4,8	-	-	-	-



NOTE:

Cable variants with CEE and Schuko plugs can only be configured with an open cable end.

*subject to technical changes

ACCESSORIES. ALWAYS SUITABLE.

Bag for EVtap® charging cable

Charging cable bag with double zipper and carrying handle. Suitable for charging cables up to 5 m (depending on cable diameter).

Dimensions outside: 35,5 x 32 x 9,8 cm
 Dimensions inside: 30 x 30 x 9 cm
 Weight: 0,550 kg
 Colour: Schwarz



EV-CCA-01

Mounting Post for EVtap® Wallbox

The post makes it possible to use the Wallbox as a free-standing charging station and thus to have more options when choosing the installation location independent of existing walls.

Height post: 149 cm
 Width post: 12 cm
 Depth post: 5,5 cm
 Width base: 25 cm
 Depth base: 19 cm
 Colour: black



EV-CCA-05

EV wall-mounted plug holder type 2

Wall-mountable plug holder type 2 (IEC62196). Angled housing for dry and practical storage of electric vehicle plugs when not in use.

Dimensions (outside): 9,8 x 11 cm
 Colour: Black



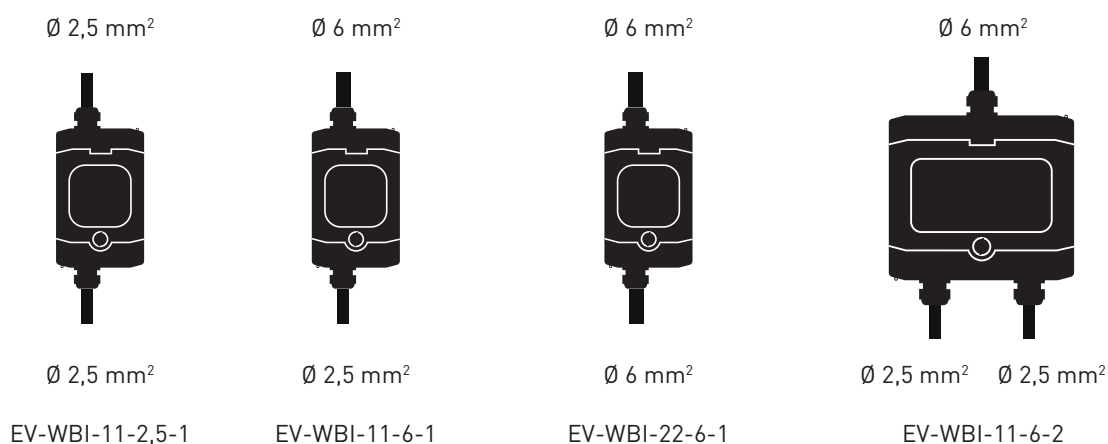
EV-CCA-03



SUB-DISTRIBUTOR. WITHOUT EQUAL.

We are your supporting partner on the way to a quick wallbox installation

- Our sub-distributors are fitted quickly and easily. Thanks to our high standard and
- our modular principle, we create a plug-and-play overall solution that enables many individual variations
- In this way, we offer frustration-free support for every electrician.
- Our 3-phase sub-distributor is suitable for every wallbox and every household. It is suitable for three-phase.
- We ensure that you receive the complete installation material in addition to the wallbox.
- The sub-distribution board is manufactured in accordance with DIN EN 61439-3 standards for distribution boards.
- We also offer you the matching cable for the sub-distributor, with individual lengths. We will be happy to select the right cable for the sub-distribution board for you. You only need to inform us of the required length.



The cable for the connection from main to sub-distributor and from sub-distributor to wallbox.

NYM-J Cable

HI Nr.	704182	701167
Cable structure	5 x 2,5	5 x 6
External cable diameter in mm	12	14,5
Copper index Kg/Km	120	288
Weight Kg/Km	270	540
PVC sheathed cable	according to DIN VDE 0250-204	
Temperature range	moving +5°C bis +70°C / not moving -40°C bis +70°C	
Nominal voltage	300 / 500V	
Minimum bending radius	fest verlegt 4x Leitungs- \varnothing	
PVC self-extinguishing and flame-retardant	according to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2	

Item numbers	EV-WBI-11-2,5-1	EV-WBI-11-6-1	EV-WBI-11-6-2	EV-WBI-22-6-1
Electrical capacity	11 kW			22 kW
Box				
Dimensions	201x128x120mm		201x202x120mm	201x128x120mm
Material box	Acrylonitrile-styrene-acrylate copolymers (ASA)			
Material door	Polycarbonate (PC)			
Norm	IEC 60670 / IEC 62208			
DIN rail	1x4		1x8	1x4
Protection class	IP 65			
Resistance to impact	IK08			
Ambient temperature range	-25°C to +60°C			
Operating voltage	400 V AC / 1500 V DC			
Protection class/ class	II			
Cable gland at the top	1xM25	1xM32	1xM32	1xM32
Cable gland at the bottom	1xM25	1xM25	2xM25	1xM32
Miniature circuit breaker (MCB)				
Number of mcb	1		2	1
Tripping characteristic class	C			
Rated current	16 A		32 A	
Rated voltage	400 V			
Poles	3			
Voltage type / type of voltage	AC			
Rated frequency	50-60 Hz			
Terminals				
Conductor	3			
Connection cross-section	0,5mm ² to 6mm ²			



DATA SHEET.

CABLE.



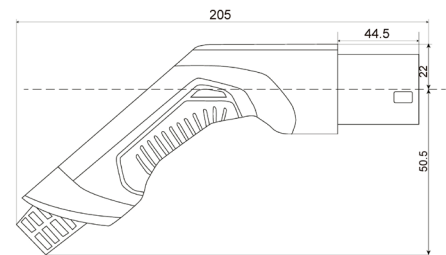
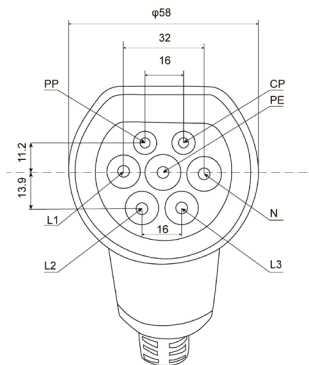
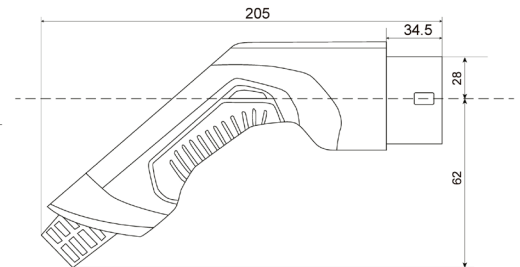
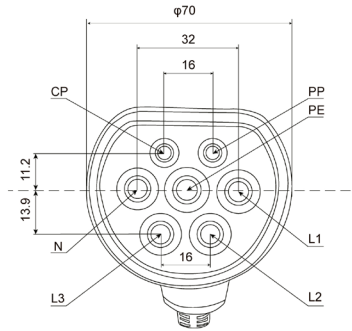
HIKRA® EVC

Construction	
Strand construction	E-Copper bare (electrolytic copper), fine wire acc. IEC 60228 Class 5
Insulation	Electron-beam cross-linked Polyolefin (EVI-2)
Outer Sheath	TPU- HFFR (EVM-1)
Colour	Sheath: black
Marking	HIKRA EVC VDE Zert. 40053157 CE
Bauartkurzzeichen	H07BZ5-F
Standards	DIN EN 50620, IEC 62893
Technical characteristics	
Nominal voltage U_0/U	450/750 V DC / AC
Maximum permitted operating voltage	480V AC (phase-earth); 825V AC (phase-phase)
Voltage test on strands	2,0 kV AC with a thickness up to 0,6 mm; 2,5 kV with a thickness > 0,6 mm; 5 Min. acc. EN50395 Section 7
Voltage test	3,5 kV AC; 15 minutes acc. EN 60395 Section 6
Current carrying capacity	Acc. EN 50620, Annex E
Short-circuit-temperature	250° C/5s
Surface resistance	EN 50395 Section 11 (≥ 109 Ohm at 100 up to 500 V DC)
DC-resistance of energy strands	EN 50395 Section 9 (10 days, 80 ± 5 °C; 0,9 kV DC)
Capacity between data- and energy strands	Capacity < 150 pF/m at 60 ± 5 °C Water temperature acc. EN 50289-1-5, 4.3.1
Material properties	
UV stability	Acc. EN 50620, Annex F; EN 50289-4-17, Method A
Ozone resistance	EN 50396 Section 8.1.3, Method B
UV resistance test on sheath	acc. EN 50620, Annex F; EN 50289-4-17, Method A (720h; $60^\circ\text{C} \pm 3^\circ\text{C}$; $50 \pm 5\%$ humidity)
Insulation resistance	EN 50395 Section 8.1; Carried out at 20°C and 90°C in water; Results acc. EN 50620, Table 4a
Dynamic penetration test	Spring-steel-needle through insulation or sheath (EN50618 Annex D)
Direct burial	Long-term water immersion at 90°C , duration 12 weeks; Insulation resistance $\geq 3G\Omega$ (internal examination acc. UL44 cl. 5.4 & UL2556 6.4.4.2.1)
Crushing- and impact-resistance	Impact-Resistance gemäß UL 854.23 und Crushing-Resistance gemäß UL 854.24 (zusätzliche interne Prüfungen)
Sheath resistance against acid and alkaline	Impact-Resistance UL 854.23 und Crushing-Resistance UL 854.24 (internal examination)
Test of the vertical flame spread	flame-retardant acc. EN 60332-1-2
Halogen-free	EN 50525-1, Annex B
Cold impact test	EN 60811-506, EN 50618 Annex C.1 at -40°C
Cold elongation test	$-40 \pm 2^\circ\text{C}$, 16h (EN 60811-505)
Chemical resistance	fuel: petrol, unleaded acc. EN 228; urea 32,5 % acc. ISO 22241-1; fuel: diesel acc. EN 590; radiator anti-freeze (C2H6O2)-water cold cleaner; mineral oil resistant IRM 902 (EN 60811-404)
Minimum bending radius	4x cable diameter
Temperature range	Ambient temperature: -40°C to $+80^\circ\text{C}$; Maximum conductor temperature: $+90^\circ\text{C}$



DATA SHEET.

PLUG 6 CONNECTOR.



Technical data

Plug and connector	IEC 62196-2	IEC 62196-2
Connector type	 Type-2 connector to type-2 plug	 Type-2 connector to type-2 plug
Charging capacity	11 kW	22 kW
Rated current	20 A	32 A
Load type	AC	
Nominla voltage	480 V	
Rated frequency	50 Hz	
Number of phases	3	
Number of power contacts	5 [L1, L2, L3, N, PE]	
Insertion/withdrawal cycles	> 10.000	
Insertion force, Withdrawal force	< 100 N	
Operating temperature	-30° C to +50° C	
Protection class	IP54 with protective cap	



A BRAND OF



**ADDITIONAL INFORMATION.
WE ARE HERE FOR YOU.**

UP TO 900 €
KFW FUNDING
NOW!**



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