

Emergency starter Meccanocar M.2-STARTER 600A



- **Emergency starter** for motorcycles, car, SUV, off road, campers and vans
- **Charger** for all mobile phones (standard connections Micro-USB, Apple 1° and 2° generation), tablet and laptop. Outputs USB 5V from 1A and 2,1A: for all electronic devices with rechargeable batteries (cameras, Go-Pro, etc.). In addition to the equipment for the supply of notebooks than 19V,3,5A the unit is provided with an outlet 12V 10A for powering small devices such as fans, navigation systems, etc..
- **The kit contains:** Main unit with integrated LED lamp fixed and flashing light, car ignition cable, set cables for phone and tablet, notebook set connectors, 12V charger with cigarette lighter socket, 230V charger.
- **System "Smart cable":** The ignition cable has electronic protection unit that protects against short circuit and from an incorrect connection. It also allows start-up of vehicles without battery or battery to 0V.
- With Pin for temperature
- The starter and all accessories are supplied in handy case with zip.
- **IN ORDER TO PROTECT THE CLAMP TO EXCESSIVE OVERHEATING, M2 IS STARTE HAS A TEMPERATURE PROBE THAT PREVENTS THE OPERATION UP TO RESTORE THE PROPER USE OF TEMPERATURE.**
- **PLIER WITH DOUBLE CABLE AND TEETH X MORE CONTACT SURFACE.**
- Product suitable for occasional use, for intensive use is recommended ns. 4430049960 - 976
- **Technical specifications:**
 - Battery with nano lithium polymer (LiCco2)-18000mAh
 - Dimensions 223x80x28,5 mm
 - Weight 720 gr
 - Input 15V-1A
 - Output 5V-1A; 5V-2,1A; 12V-10A; 19V-3,5A;
 - Charging time 6 h
 - Starting power 600A
 - Operating temperature -20 °C/60 °C
 - Shock-resistant aluminum casing



Code	Description
4430057062	M.2-Starter 600A

Spare Parts	
Code	Description
4430057035	DC/DC 12V power supply (1)
4430057040	Charging cable device with 3 connectors (2)
4430057070	Power supply unit 110/240V (3)
4430057082	Cable set with pliers 3 pin x 600A (4)

Set cavi di ricambio con pinze per 600A

Set cavi con pinze per 600A per modello 4430057060



Code	Description
4430057080	Set cavi con pinze x 600 A

Emergency Starter 4.0 - 12V 800A



- Ideal for starting motorbikes, cars and vans.
- Practical, easy to handle, light and easy to use.
- Includes charge level indicator.
- Mobile phones and tablets can be recharged using a USB 5V-2A socket.
- Equipped with a fixed or flashing LED lamp.
- **N.B. THE STARTER DOES NOT HAVE A FUSE, BUT GOES INTO PROTECTION MODE IF IT OVERHEATS. IT WILL BE READY TO FUNCTION AGAIN AFTER THREE MINUTES.**



Code	Description
4430058100	Starter 4.0

Technical Features	
Weight	1250 gr
Power output	800 A
Operating temperature	-20° C / 60°C
Dimensions	274 x 165 x 60 mm
Lithium-ion polymer battery capacity	18000 mAh (66.6 Wh)
Output	5V-2A ; 12V starter
Recharge time	6 hours
Input	15V-1A



Spare Parts	
Code	Description
4430057035	DC/DC 12V feeder (1)
4430057070	110V/240V electricity power feeder (2)

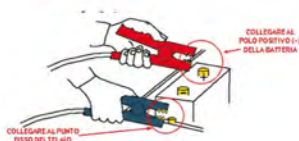
Jump starter model 12V-2400°



- Portable Emergency starter for the setting in motion of motor vehicles with working batteries but exhausted.
- The carcass polyethylene provides extreme durability and excellent resistance to accidental knocks.
- With blue clamp provided with leds to better identify the point of contact.
- Standard: 12v-220v charger automatic, dual cigarette lighter plug.
- The starter is connected to the cigarette lighter, it can be used as the maintainer of memories of all those vehicles which have the circuit of the memories on the cigarette lighter socket.
- With a spare fuse.

ISTRUZIONI D'USO

Collegare prima la pinza rossa (+) al polo positivo (+) della batteria, quindi collegare la pinza nera (-) ad un punto fisso del telaio possibilmente non verniciato. Non collegare mai al polo negativo (-) della batteria.



Code	Power	Desc.
4430049960	2400A	976-12V

Tecnical Features	
Weight	10,5 Kg
Dimensions	Width 430 mm - Height 360 mm - Depth 90 mm
Cable clamps	1,5 mt x 25 mm2
Peak current	2400A
Voltaggio	12 Volt
Starting current	800A

Spare Parts	
Code	Description
4430049366	918 - Battery 12V-2400A / H Dimensions 16,7x L18xP7,5cm
4430049630	955 - Double Cable cigarette lighter plug
4430049961	976C - Auto charger 220v-12v
4430049962	Cigarette lighter female
4430049963	976B - Blue pliers with LEDs
4430049964	976R - Red pliers
4430049965	976F - Fuse 300A
4430049966	Voltmeter
4430049967	976P- button for starters
4430050535	male cigarette lighter plug

Starter 12v - 3100 A peak



N.B. UTILIZZARE IL MORSETTO BATTERIA NEGATIVO QUANDO VIENE ESCLUSA LA BATTERIA O QUANDO QUESTA NON C'E'

ISTRUZIONI D'USO
 Collegare prima la pinza rossa (+) al polo positivo (+) della batteria, quindi collegare la pinza blu (-) ad un punto fisso del telaio possibilmente non verniciato. Non collegare mai al polo negativo (-) della batteria.

- AVVIATORE A 12 V-3100 A PICCO - 1200 A IN CONTINUO.
 - LUNGHEZZA CAVI 150 Cm.
 - CARICATORE AUTOMATICO.
 - PROTEZIONE SOVRATENSIONE.
 - PESO Kg. 14,5.
 - CARCASSA IN POLIETILENE AD ALTA RESISTENZA.
- NB: PRIMA DELL'USO LEGGERE ATTENTAMENTE IL LIBRETTO DI USO E MANUTENZIONE**

- Indicated for the start of any vehicle of any power with or without battery.
- Voltmeter for indicating charge status.
- With automatic charger and cable with double cigarette lighter adapter.
- Overvoltage protection.
- With instruction booklet.
- With a spare fuse
- A EC regulations.

Code	Description
4430050060	985-12V 3100A STARTER

Spare Parts	
Code	Description
4430049961	976 C-AUTO CHARGER. 220V / REPLACEMENT
4430049630	955 CABLE DOUBLE PIN LIGHTER / REPLACEMENT
4430049982	978 B - SPARE CLAMP BLUE C/LED
4430049984	978 R CLAMP RED REPLACEMENT
4430050080	986 F - FUSE REPLACEMENT
4430050075	986B BATTERY REPLACEMENT 248x96x145
4430050535	male cigarette lighter plug

Jump starter 12-24 volts from 4800 to 2400 A



- Starter portable emergency for the setting in motion of vehicles with working batteries but unloaded, with the possibility of delivering voltages to choice from 12 or 24 volts.
- Suitable for use on all types of means: cars, commercial vehicles, trucks, construction equipment, tractors, boats, etc. useful for mechanics, auto electricians, road transport driver, farms, shipyards, breakdown, etc.
- The shape of the casing allows you to place it in tight spaces or behind the seats of vehicles. The fuse protection against short circuits is easily accessible on the front panel to replace it quickly in case of need.
- Extremely robust: shockproof casing Polyethylene, brass terminals Professional, heavy gauge wiring length of 1.5 meters, plugs for the switching voltage of professional.
- Protected from any kind of operating error or malfunction of the vehicle batteries.
- It equipped as standard with automatic charger with power at 220V-50Hz.
- With a spare fuse.



Code	Desc.
4430049980	978

Spare Parts			
Article	Code	Description	
Automatic charger 220V - 12V	4430049981	978C	
12V battery-2400A / H Dimensions 16.7 L18 P 7.5	4430049366	918BATT	
Blue clamp with LED	4430049982	978B	
Red clamp	4430049984	978R	
Fuse	4430049965	976F	
Yellow plug	4430049986	978S	
Red handle	4430049987	978MA	

Tecnical Features	
Dimensions	Width 500 mm - Height 480 mm - Depth 160 mm
Weight	21 Kg
Reverse polarity alarm	Yes
Uscita a 12 V protetta	16A
Cable clamps	1,5 m x 50 mmq
Voltaggio	12/24 volt
Starting current	1600/800A
Battery charger	12V-1300mA
Peak current	4800/2400 A

Jump starter combined 12-24 Volts 6200-3100 A



- Combination starter highly professional dedicated to the world of cargo, realized without compromising quality.
- Possibility to supply voltages from 12 to 24V range.
- The voltage selector, 12-24V, is made with sockets anderson, the only able to hold the large amperages generated by this type of starter.
- The heavy gauge wiring completely changed ensure maximum flow of current without overheating.
- The supplied battery charger, allows a full recharge very quickly.
- The special reduced form of the carcass, allows storing it in tight spaces or behind the seats of vehicles. The fuse protection against short circuits is easily accessible on the front panel to replace it quickly in case of need.
- Extremely robust construction: carcass antiurtoin polyethylene, brass terminals Professional, heavy gauge wiring length of 1.5 meters, professional plug for direct connection also to vehicles. Protected from any kind of operating error and malfunction of vehicle batteries.
- Suitable for use on any type of medium, in particular where they are needed multiple starts in difficult conditions of industrial vehicles without batteries on board or discharged batteries.
- Aimed at all those working in the fields haulage vehicles: truck drivers, transport companies, sanitation, breakdown services, quarries, construction sites, shipyards, repair and body shops commercial vehicles, agricultural, earthmoving, elettrauto.
- With a spare fuse.

Code	Desc.
4430055000	1120

Technical Features	
Dimensions	W. 520 mm - H. 400 mm - D. 160 mm
Weight	24 Kg
Reverse polarity alarm	Yes
Uscita a 12 V protetta	16A
Cable clamps	1,5mt x 50 mmq
Peak current	6200/3100A
Voltaggio	12/24 Volt
Starting current	2400/1200A

Spare Parts			
Article	Code	Description	
Battery charger	4430049981	978C	
Blue clamp c/led	4430049982	978B	
Red clamp	4430049984	978R	
Fuse	4430050080	986F	
Replacement battery 248x96x145	4430050075	986B	
Yellow plug	4430049986	978S	
Red handle	4430049987	978MA	

Jump starter 24 volts - 3100 A



- Portable emergency starter for the setting in motion of vehicles powered by voltages from 24 volts.
- Suitable for use on any type of medium: commercial vehicles, trucks, construction equipment, tractors, military vehicles, boats, etc. Useful for mechanics, auto electricians, road transport driver, farms, shipyards, breakdown, etc.
- The shape of the casing allows you to place it in tight spaces or behind the seats of vehicles. The fuse protection against short circuits is easily accessible on the front panel to replace it quickly in case of need.
- Extremely robust: shockproof casing Polyethylene, brass terminals professional, heavy gauge wiring length of 1.5 meters, professional plug for direct connection also to vehicles.
- Protected from any kind of operating error or malfunction of the vehicle batteries. It equipped as standard with automatic charger with power at 220V-50Hz.
- With spare fuse.

Code	Desc.
4430050070	986

Spare Parts		
Article	Code	Description
Battery charger	4430050071	986C
Clamp blue	4430049982	978B
Red clamp	4430049984	978R
Fuse	4430050080	986F
Replacement battery 248x96x145	4430050075	986B

Tecnical Features	
Voltaggio	24 volt
Starting current	1200A
Peak current	3100A
Battery charger	24V-3500mA
Cable clamps	1,5 m x 50 mmq
Uscita a 12 V protetta	16A
Reverse polarity alarm	Si
Weight	24 Kg
Dimensions	Width 500 mm - Height 480 mm - Depth 160 mm

Avviatore carrellato bomo24-truck



- Avviatore professionale carrellato 24 V-7920 A
- Indicato per l'uso pesante e ripetuto nelle grandi aziende di trasporto, trasporto pubblico urbano, trasporto rifiuti, flotte, carrozzerie e officine industriali.
- Apparecchio affidabile anche in condizioni di temperature estremamente rigide e batterie completamente scariche.
- Dotato di allarme di polarità inversa.

Code	Desc.
4430058120	BOMO24-TRUCK

Technical Features	
Weight	55 Kg
Charger	AC230V 24V/3,5A
Dimensions	47x34x97
Sezione cavi	70 mmq
Lunghezza cavi	180 cm
Corrente di spunto	7920A
Starting current	2640A

Spare Parts		
Article	Code	Description
Pinza blu	4430049982	978B
Pinza rossa	4430049984	978R
Fusibile	4430050080	986F
Caricabatterie	4430050071	986C
Batteria di ricambio	4430058125	1780

New save memories for 12V vehicles



- Instrument save memories with OBD socket
- By connecting the unit to a battery starter 12V, you can perform the replacement or maintenance of a battery without losing the memories of the vehicle.
- **The practical adapter is also possible to use the n / s M600-600A starter**
- **Features:**
- Fully Automatic
- Cigarette lighter plug protected by glass fuse 5A extent 6,3x32n / s 3530000800
- Automatic Detection System: If the vehicle's electronics enables the device to safeguard memories taken by Obd or function via the cigarette lighter.
- The LED indicators supplied verify that there is the right connection between the Obd taken with the starter and if the battery can be removed without the risk of losing the edge memories
- **INSTRUCTIONS FOR USE:**
- 1. Connect the cigarette lighter plug of the device to the power source at 12V and make sure it is fully inserted. The yellow light # 1 "CONNECTED" should light to confirm the goodness of the connection.
- CAUTION: Do not connect the plug of the device into the cigarette lighter of the vehicle which you intend to replace the battery.
- 2. Fully insert the plug into the OBD diagnostic socket of the vehicle, you must turn on the yellow light # 2 "RELATED" to confirm the connection.
- 3. Verify that the green light comes on # 3, in this case you can proceed to disconnecting battery. If the light is red NOT

Code	Description	Application
4430057600	Save memories x OBD	12V

Protection apparatus 12 / 24V



- The device reduces the voltage spikes caused by welding, thereby protecting the electronics of the vehicle.
- It connects directly to the batteries at 12 or 24 V.

Code	Desc.
4770001620	162

Caricabatterie

MECCANOCAR PRESENTA UNA GAMMA RIVOLUZIONARIA DI CARICABATTERIE, NUOVA NELLA TECNOLOGIA E NEGLI INGOMBRI, SIAMO RIUSCITI A RACCHIUDERE IN POCHI CENTIMETRI QUADRI QUANTO DI MEGLIO SI CONOSCA IN FATTO DI CARICABATTERIE PRENDENDO SPUNTO DALLA STESSA TECNOLOGIA UTILIZZATA PER ALIMENTARE I COMPUTER PIU' MODERNI.

RISPETTO AI CARICABATTERIA TRADIZIONALI, QUELLI MECCANOCAR PRODUCONO ENERGIA STABILE SIA NEI VALORI DI TENSIONE CHE DI CORRENTE SENZA PROVOCARE ALCUN DISTURBO ELETTROMAGNETICO.

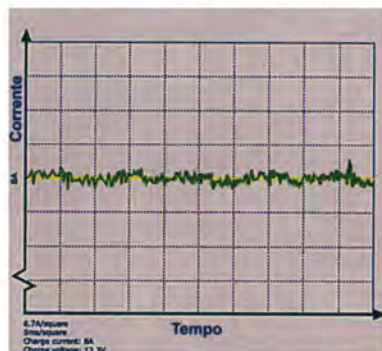
CON SISTEMA DI MANTENIMENTO AD IMPULSI CHE PERMETTE DI TENERE LA BATTERIA COLLEGATA AL CARICABATTERIE ANCHE PER LUNGI PERIODI, UNO SPECIALE CIRCUITO ELETTRONICO PROVEDE AD INVIARE BREVI IMPULSI QUANDO LA BATTERIA SCENDE AL DI SOTTO DEI 12.9V E MANTENENDO LA BATTERIA COSTANTEMENTE TRA IL 95% E IL 100% DELLA CARICA. IL MODELLO PIU' POTENTE, 4430050530-XS7000 E' DOTATO DEL PROGRAMMA BOOST IN GRADO DI DARE NUOVA VITA ALLE BATTERIE STANCHE GRAZIE AD UN SOVRAVOLTAGGIO ACCURATAMENTE PILOTATO.

TUTTI I MODELLI SONO PROTETTI CONTRO L'INVERSIONE DI POLARITA' E NON PROVOCANO SCINTILLA AL MOMENTO DELLA CONNESSIONE.

DIAGRAMMI DEI DISTURBI DI CORRENTE

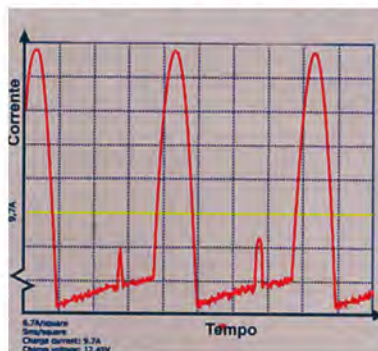
OGGI

DISTURBO DI CORRENTE SUL CARICABATTERIE MECCANOCAR



IERI

DISTURBO DI CORRENTE SU UN CARICABATTERIE LINEARE



ESEMPIO DI CARICA

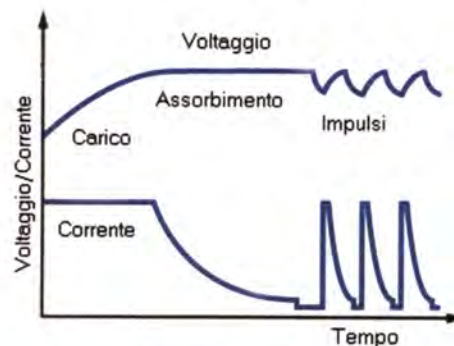


Diagramma di carica XS 3600

Battery charger Meccanocar XS 0.8A



- Chargers of the latest generation for small batteries.
- Fully automatic for optimal charging of all lead-acid.
- Suitable for charging batteries of motorcycles, snowmobiles, quads, lawnmowers.
- It is also indicated for the maintenance of normal sized batteries up to 100Ah.
- Ideal for workshops motorcycles, cars, garages, dealerships.
- A CE.
- 5 year warranty.
- FULLY AUTOMATIC:
 - 1) connect the charger to the battery
 - 2) connect the charger to the wall socket (220V)
 - 3) without ...
- Charging the battery takes place in a completely automatic and takes place in six stages:
 - 1) Desulphation: pulse voltage removes sulphates from the lead plates of the battery restoring the battery capacity
 - 2) Mass: Charging with maximum current up to 80% of the battery capacity
 - 3) Absorption: ready to use, recharge with current decreasing to 100% of the battery capacity
 - 4) Analysis: verify if the battery is able to retain the charge.
 - 5) Float: maintains the battery voltage at maximum level by providing a constant voltage charge (This phase is timed and lasts at least 10 days if the battery is kept in a state of relative rest.)
 - 6) Trickle charge pulsed: keeps the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep it fully charged.
- (This step is activated not before 10 days from the start of the charge, and is designed for the long term maintenance).

Code	Desc.
4430050522	XS 0,8A

Spare Parts			
Code	Description	Model	Photo
4430050537	connettore stagno accendisigari	Con connettore in gomma per accendisigari Ø 12-21 mm.	1
4430050539	connettore stagno batteria	Con connettore in gomma ed occhielli preisolati Ø 6,5 mm.	2

Technical Features	
Tensione minima batteria	2,0V
Tipo di batterie	batterie al piombo-acido 12V
Isolamento	IP65 (a prova di schizzi e polveri)
Battery capacity	1,2-32AH, 100AH per mantenimento
Tensione di ricarica	14,4v
Charging current	Max 0,8A
Tipo di caricabatterie	6 fasi, ciclo di ricarica completamente automatico

Meccanocar battery charger MXS 3.8 (ex. XS 3600)



- Fully automatic, with three programs:
- 14.4 V / 0.8 to batteries for from 1.2 to 14 A / h.
- 14.4 V / 3.8 to for batteries from 14 to 130 A / h.
- 14.7 V / 3.8 in to the winter cycle or AGM batteries (Acid Glass Mat).
- Cycle constant current - constant voltage.
- Pulse maintenance.
- Automatic reduction of power due to excessive temperature.
- A EC regulations.
- Ideal for all types of modern cars and boats up to 350 Hp.
- Warranty 5 years.
- IP65 (dust proof and splash proof).

Code	Desc.	V Volts	Capacity Ah
4430050525	MXS 3.8	12	1,2 - 130

Tecnical Features	
Weight	0,5 Kg
Dimensions	165x31x38 mm (LxLxA)
Tensione CA	220-240 VCA, 50-60Hz
Current	0,6A rms
Return current	< 1,3mA
Tensione di ricarica	14,4 V/0,8A - 14,4V/3,8A, 14,7V/ 3,8A
Oscillazione	Max 50 mV rms max 0,05 A rms
Charging current	0,8-3,8 A max
Range di temperatura	da -20°C a +50°C
Isolamento	IP65 (dust proof and splash proof)
Batteries capacity	da 1,2 a 130 Ah

Meccanocar battery charger MXS 7.0



- Fully automatic, with four programs: 14.4V / 7A for standard batteries, 14.7V / 7A for winter cycle or AGM batteries, power supply 13.6V / 7A, boost 16V / 1.5A.
- Cycle diagnosis - constant current - constant voltage-pulse maintenance.
- The way power allows replacement of the battery of the vehicle without the loss of memories.
- The boost mode allows the recovery of batteries also subjected to excessive discharge.
- Automatic reduction of power due to excessive temperature.
- Supplied in carrying case with instructions.
- A CE
- Ideal for batteries of 12V trucks, industrial vehicles and construction machines, vessels up to 800 hp.
- * To Back current drain is defined as the current that returns from the battery if the charger is connected to the battery without connecting the power cord. This value is on average 30 times lower than in conventional chargers.
- ** The quality of the current and voltage is very important. a linear charger produces a current with a high ripple that heats up the battery and makes the positive electrode age prematurely. A high value of the oscillation can also harm other equipment connected to the battery. The chargers Meccanocar allow to obtain high quality current low ripple. There is no need to disconnect the battery from the vehicle to protect the electronics.

Code	Desc.	V Volts	Capacity Ah
4430050530	XS7000	12	14-225

Tecnical Features	
Weight	0,8 Kg
Isolamento	IP65 (dust proof and splash proof)
Batteries capacity	da 14 a 225 Ah
Oscillazione**	Max 150 mV rms max 0,3A rms
Charging current	7 A max
Range di temperatura	da -20°C a +50°C
Tensione CA	220-240 VCA, 50-60Hz
Current	0,9 A rms
Tensione di ricarica	14,4 V, 14,7V, 13,6V continuous, 16 V Boost
Dimensions	191x89x48 mm (LxLxA)
Return current*	< 3 mA

Battery charger Meccanocar 24V



- Fully automatic, with 3 programs.
- Cycle diagnosis, constant current, constant voltage, pulse maintenance.
- The program allows power to change the batteries and to supply loads without losing the memories. You can also protect the control units during welding operations.
- The program also lets you boost the recovery of discharged batteries where excessive power is reduced automatically when the temperature increases.
- * To Back current drain is defined as the current that returns from the battery if the charger is connected to the battery without connecting the power cord. This value is on average 30 times lower than in conventional chargers.
- ** The quality of the current and voltage is very important. A linear charger produces a high ripple current that heats up the battery and makes the positive electrode age prematurely. A high value of the oscillation can also harm other equipment connected to the battery. The chargers Meccanocar allow to obtain high quality current low ripple. There is no need to disconnect the battery from the vehicle.

Code	Desc.	Capacity Ah
4430050532	Multi XT14000	28-500

Tecnical Features	
Weight	1,4 Kg
Dimensions	233x128x64 mm (LxLxA)
Batteries capacity	from 35 to 225 Ah
Isolamento	IP 44 (outdoor use)
Charging current	14 A max
Range di temperatura	from -20°C to +50°C
Tensione di ricarica	from 28.8 to 31.0 V, which varies as a function of temperature.
Oscillazione**	Max 50 mV rms max 0,13A rms
Tensione CA	220-240 VCA, 50-60Hz
Return current*	14 mA
Current	3,0 A rms

Connectors battery charger Meccanocar



- Connectors cigarette lighter socket and direct battery connection for connecting electronic caribatterie Meccanocar XS800 and XS3600.
- The connectors allow for cigarette lighter to recharge the batteries using the special sockets present on the media, like BMW motorcycles.
- The connectors for direct connection to the battery allow to quickly change the availability by a connection to the battery without removing fairings motorcycle or covers on the car.
- Complete with cable of adequate length of about 30 cm.

Code	Description	Model	Photo
4430050535	Cigarette lighter connector	Old model with plastic connector for cigarette lighter Ø 12-21 mm.	1
4430050537	Waterproof connector cigarette lighter	New model with rubber connector for cigarette lighter Ø 12-21 mm.	2
4430050539	Waterproof connector battery	New model with rubber connector and pre-insulated eyelet Ø 6,5 mm.	3