Highlights

Passt immer!

⁄⁄I HERTH+BUSS

"Real-life" implemented improvement process

We, the management are committed to the TQM concept, because we value the trust our customers place in us and want to maintain it in the long term.

We see our relationship with our customers as a partnership which must be constantly improved. As a result, we continuously check even established processes for opportunities for improvement.

And not because anyone is forcing us to do so, because we have met the criteria for the ISO certification for a long time.

Instead, we are motivated by the chance to achieve even better results in our work together and to help our customers to increase their competitiveness and hence secure their long-term success.

That is what we call a "real-life implemented improvement process", and it is also what our many long-term customers especially appreciate about their cooperation with Herth+Buss.

We are certified according to:

- ISO 9001:2015 Quality management
- VDA 6.2 Quality management
- StVZO Verification

Content

Installation

» ATTACHMENT PARTS

i

Effortless fixing!

There are different clips for many areas on the vehicle which secure the connection between the body and panelling, for example on panelling in the boot, in the vehicle's interior, such as the door panelling, in the engine bay, clips for sidebars etc. The product group Attachment parts offers an extensive range, which includes clips, blind rivets, retaining clips, expanding rivets, screws and other fixing parts. We also offer various assortments. Depending on the equipment variant, these contain up to 240 parts and fit vehicles from BMW, Mercedes-Benz, VAG, Ford or Vauxhall (Opel).

Dimension specifications

The dimensions of our body fasteners are specified for the width, height and depth, diameter and pitch circle diameter, amongst other things. This is shown in the catalogue as follows.
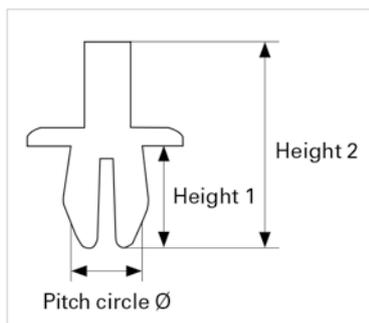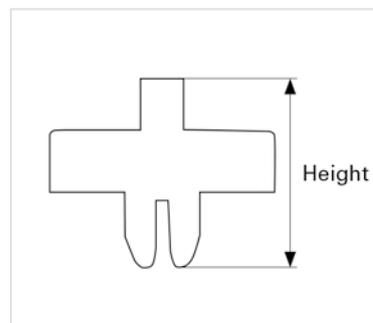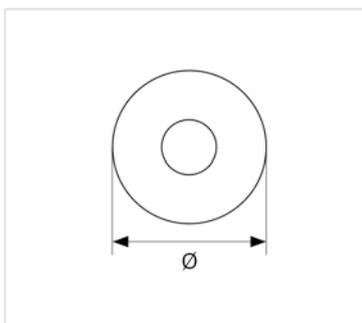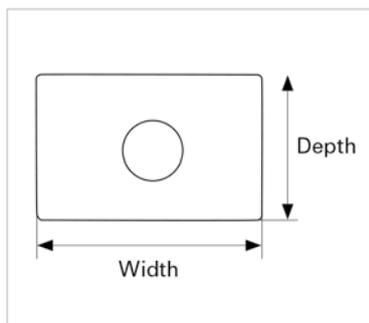
Assortment, fasteners

Version: VAG
Mercedes-Benz

	Quanti-ty	DU	Article no.
	185	1	**54267001**
Content		**QU**	
Assortment Box		1	**99994507**
Blind Rivet		10	**50267064**
Clip		10	**50267047**
		10	**50267050**
		10	**50267059**
		10	**50267060**
		10	**50267062**
		10	**50267066**
Expanding Rivet		20	**50267014**
		10	**50267038**
Grommet		10	**50267026**
Holding Bracket		10	**50267044**
		10	**50267069**
		25	**50267140**
Screw		10	**50267057**
		10	**50267065**
		10	**50267067**
Accessories	**see**	**DU**	
Frame, assortment box HandyBox	Katalog04	1	**99994532**
Mounting Wedge	Page 51	1	**95926000**

Assortment, fasteners

Version: VAG
BMW
Opel
Peugeot
Mercedes-Benz

	Quanti-ty	DU	Article no.
	240	1	**54267002**
Content		**QU**	
Assortment Box		1	**99994507**
Clip		10	**50267007**
		10	**50267037**
		10	**50267048**
		10	**50267081**
		10	**50267083**
		10	**50267084**
		10	**50267086**
		10	**50267087**
		10	**50267088**
		10	**50267143**
		10	**50267145**
		10	**50267148**
Expanding Rivet		10	**50267001**
		20	**50267017**
		10	**50267038**
		10	**50267041**
		10	**50267042**
		10	**50267080**
		10	**50267082**
		10	**50267085**
		10	**50267144**
		10	**50267146**
		10	**50267147**
Accessories	**see**	**DU**	
Frame, assortment box HandyBox	Katalog04	1	**99994532**
Mounting Wedge	Page 51	1	**95926000**

FLY

Electric Cable

Material: PVC
Temperature range: -40 to +70 °C
DIN / ISO: 6722

Conductor Number conductor	Packing Type	Wire cross section mm²	Cable Core Colour	QU	DU	Article no.
1	Coil	1 x 0,75	●	Metre	100	**51274206000**
			●	Metre	100	**51274206005**
		1 x 1,0	●	Metre	100	**51274207000**
			●	Metre	100	**51274207005**
		1 x 1,5	●	Metre	100	**51274208005**
			●	Metre	100	**51274208000**
		1 x 2,5	●	Metre	50	**51274209000**
			●	Metre	50	**51274209005**
		1 x 4,0	●	Metre	25	**51274210000**
			●	Metre	25	**51274210005**
Accessories				**see**	**DU**	
Wall Mounting, cable spool				Page 10	1	**51274200**

FLYY

Electric Cable

Shape: Flat
Material: PVC
Temperature range: -40 to +70 °C
DIN / ISO: 6722

Conductor Number conductor	Wire cross section mm²	Packing Type	Cable Core Colour	Colour	QU	DU	Article no.
2	2 x 1,5	Coil	●●	●	Metre	25	**51274248000**
Accessories					**see**	**DU**	
Wall Mounting, cable spool					Page 10	1	**51274200**

XYFAZ

Electric Cable

Material: PVC
Temperature range: -40 to +70 °C
DIN / ISO: 6722

Conductor Number conductor	Wire cross section mm²	Packing Type	Cable Core Colour	QU	DU	Article no.
2	2 x 0,75	Coil	●●	Metre	50	**51274227**
Accessories				**see**	**DU**	
Wall Mounting, cable spool				Page 10	1	**51274200**

Electric Cable

Material: Silicone
Surface: Tin-plated
Temperature range: -40 to +180 °C

Extremely flexible electric cable with very fine diameter of the individual copper strands and highly elastic silicone insulation. Also in use in the Herth+Buss RepCab.

Conductor Number conductor	Length m	Packing Type	Wire cross section mm²	Cable Core Colour	DU		Article no.
1	5	Blister Pack	1 x 0,5	●	1		**51275505000**
				○ (yellow)	1		**51275505002**
				● (red)	1		**51275505005**
			1 x 0,75	●	1		**51275506000**
				○ (yellow)	1		**51275506002**
				● (red)	1		**51275506005**
			1 x 1,5	○ (yellow)	1		**51275508002**
				● (red)	1		**51275508005**
			1 x 2,5	●	1		**51275509000**
				● (red)	1		**51275509005**
			1 x 4,0	●	1		**51275510000**
				● (red)	1		**51275510005**

FLRYY

Electric Cable

Cable ID:	FLRYY	**Temperature range:**	-40 to +70 °C
Material:	PVC	**DIN / ISO:**	6722

Conductor Number conductor	Wire cross section mm²	Packing Type	Cable Core Colour		QU	DU	Article no.
8	7 x 1,0	Ring	● ● ● ● ● ● ●	NEW	Metre	50	**51275608000**
	1 x 1,5		○				

FLYY

Electric Cable

Cable ID: FLYY
Material: PVC
Temperature range: -40 to +70 °C
DIN / ISO: 6722

Packing Type	Conductor Number conductor	Wire cross section mm²	Cable Core Colour	Colour		QU	DU	Article no.
Ring	2	2 x 1,5	● ●	●	NEW	Metre	50	**51275348000**
		2 x 2,5	● ●	●	NEW	Metre	50	**51275349000**
	7	7 x 1,5	● ● ● ● ○ ● ●	●	NEW	Metre	50	**51275378000**

FLRY-A

Electric Cable

Material:	PVC
Temperature range:	-40 to +105 °C
DIN / ISO:	6722

Conductor Number conductor	Packing Type	Wire cross section mm²	Cable Core Colour	QU	DU	Article no.
1	Coil	1 x 0,22	●	Metre	100	**51274903000**
		1 x 0,35	●	Metre	100	**51274904000**
		1 x 0,5	◯	Metre	100	**51274905002**
			●	Metre	100	**51274905000**
Accessories				see	DU	
Wall Mounting, cable spool				Page 10	1	**51274200**

Wall Mounting, cable spool

An empty cable wall mount with body fasteners for up to five coils.

1

	WxHxD:		616 x 150 x 155 mm

	DU	Article no.
	1	**51274200**

Assortment, cable ties

Material:	Polyamid 6.6
Temperature range:	-40 to +85 °C
Inspection Tag:	UL94 V2

	Quantity	DU	Article no.
NEW 700		1	**50266070**
Content	**Colour**	**QU**	
Cable Tie	🔵	100	**50266001**
	🟡	100	**50266002**
	🟢	100	**50266003**
	🔴	100	**50266004**
	●	100	**50266490**
	●	100	**50266491**
	●	100	**50266492**
Accessories	**see**	**DU**	
Cable Tie Pliers	Katalog08	1	**90942365**

Cable Connector Kit
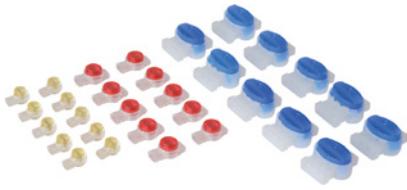
Design: Sealed Version   **Info:**   with gel filling
                                                        Corrosion resistant

Plug Type		Quanti-ty	DU		Article no.
T-Union	NEW	30	1		**50252595066**

Content	Number of Poles terminal	Cable-Ø mm	Colour	QU	
Cable Connector	2	to 1,5	🟡	10	**50252590**
	3	to 1,7	🔴	10	**50252591**
	3	to 3,8	🔵	10	**50252592**

» REPAIR KIT OVERVIEW

Alternator

51277252   51277276

51277297

Mass air flow meter

51277288   51277303

51277308   51277317

Wheel speed sensor

51277160   51277259

51277307   51277337

Lambda sensor

51277251   51277253

51277259

Windscreen wiper motor

51277250

Parking sensor

51277272   51277273

51277318   51277340

Side marker light

50390266   51277265

Headlights

51277160   51277162

51277280   51277281

51277282

Injector valve

51277163   51277164

51277266   51277267

51277275   51277328

EGR valve

51277264   51277270

51277336

Interior heating fan

51277183   51277319

51277320   51277321

51277333

Combination rearlight

51277155   51277260

51277261   51277263

51277277   51277311

51277325   51277326
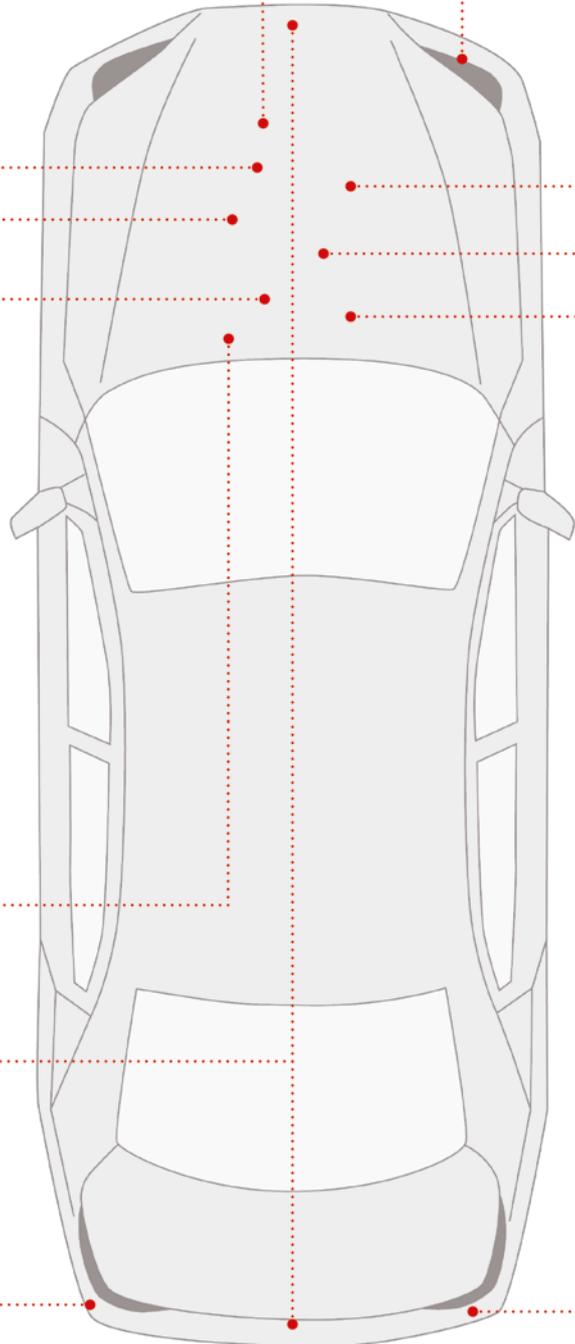
RepCon

Cable Repair Set, tail light

Number of Poles:	4 terminal	Info:	with socket housing
Temperature range:	-25 to +140 °C		with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Version	Connector	DU	Article no.
175	1	Alfa Romeo Fiat	147 Punto Punto Evo Grande Punto		1	**51277254**
Accessories				**see**	**DU**	
Squeeze Connector Crimpseal II				Katalog04	50	**50252552**

RepCon

Cable Repair Set, tail light

Number of Poles:	5 terminal	Info:	with socket housing
Temperature range:	-25 to +140 °C		with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Version	Connector	DU	Article no.
175	1	Fiat	Panda Panda Van Punto Punto Van Stilo Stilo Multi Wagon		1	**51277277**
Accessories				**see**	**DU**	
Squeeze Connector Crimpseal II				Katalog04	50	**50252552**

RepCon

Cable Repair Set, tail light

Number of Poles:	6 terminal	Info:	with socket housing
Temperature range:	-25 to +140 °C		with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
175	1	Citroen Fiat Peugeot		1	**51277255**
Accessories			**see**	**DU**	
Squeeze Connector Crimpseal II			Katalog04	50	**50252552**

RepCon

Cable Repair Set, air flow meter

Number of Poles:	6 terminal	Info:	with socket housing
Temperature range:	-25 to +140 °C		with seal
			with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
175	0,5	Citroen Fiat Peugeot		1	**51277253**
Accessories			**see**	**DU**	
Squeeze Connector Crimpseal II			Katalog04	50	**50252552**

RepCon

Cable Repair Set, tail light

Number of Poles:	6 terminal	**Info:** with socket housing
Temperature range:	-25 to +140 °C	with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
250	0,75 to 1	Fiat Lada Dacia Citroen Peugeot Renault		1	**51277261**
Accessories			**see**	**DU**	
Squeeze Connector Crimpseal II			Katalog04	50	**50252552**

RepCon

Cable Repair Set, EGR valve
Cable Repair Set, air flow meter

Number of Poles:	6 terminal	**Info:** with socket housing
Temperature range:	-25 to +140 °C	with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
200	0,5	Nissan Opel Renault	NEW	1	**51277317**
Accessories			**see**	**DU**	
Squeeze Connector Crimpseal II			Katalog04	50	**50252552**

RepCon

Cable Repair Set, air flow meter

Number of Poles:	5 terminal	**Info:** with gaskets/seals
Temperature range:	-25 to +140 °C	with socket housing
		with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
200	0,75	Alfa Romeo Citroen Fiat Lancia Nissan Opel Peugeot Suzuki Volvo	NEW	1	**51277288**
Accessories			**see**	**DU**	
Squeeze Connector Crimpseal II			Katalog04	50	**50252552**

RepCon

Cable Repair Set, tail light

Number of Poles:	7 terminal	**Info:** with socket housing
Temperature range:	-25 to +140 °C	with pipe

Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Version	Connector	DU	Article no.
200	1	Mercedes-Benz	C-class CLC-class CLS E-class GLK-class S-class	NEW	1	**51277289**
Accessories				**see**	**DU**	
Squeeze Connector Crimpseal II				Katalog04	50	**50252552**

Connector Cable, camshaft sensor

Oil leaking from the camshaft sensor plug is a familiar problem on Mercedes-Benz petrol engines. The fault is design-related and cannot be rectified in the long term by replacing the sensor. Due to the capillary effect, the oil can infiltrate the harness to reach the control unit and eventually cause electronic failure and damage to individual parts. Such damage can be prevented with the Herth+Buss oil- stop cable. Fine copper sleeves have been incorporated into both lines of the oil-stop cable in order to prevent the oil from spreading. These have subsequently also been wrapped in heat-shrink tubing. We recommend installing one oil-stop cable on every M111 (engine code), two on every M271 and as many as four on every M272 (V6).

How long does it take to fit the oil-stop cable? Fitting it will take a maximum of five minutes. Detach the harness from the sensor before inserting the oil- stop cable from Herth+Buss between the connection on the sensor and the old harness.

Number of Poles:	2 terminal	
Temperature range:	-25 to +125 °C	

Info:	with gaskets/seals
	with cable ties
	with copper casing
	with protection hose

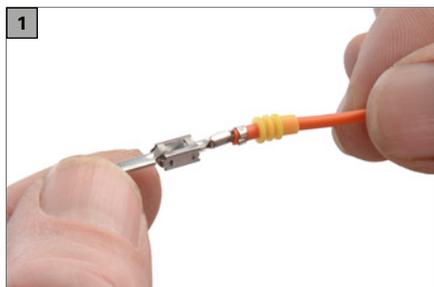| Cable Length mm	Cable Cross Section mm²	Manufacturer Restriction	Connector	DU	Article no.
110	1	Mercedes-Benz		1	**51277300**

RepLine

Assortment, repair cable

Info: with gaskets/seals
with shrink squeeze connec-
tor

1

2

Cable Length mm	Manufacturer Restriction			DU	Article no.
300	BMW Mercedes-Benz Opel VAG			1	**54277001**

Content	Diameter mm	Colour	QU	
Assortment Box			1	**99994523**
Foam Insert, assortment box			1	**99994540**
Repair Cable RepLine (AMP Tyco JPT | AMP Tyco MCP 2,8)			5	**51277220**
Repair Cable RepLine (AMP Tyco JPT)			5	**51277203**
			5	**51277216**
Repair Cable RepLine (AMP Tyco MCON 1,2)			5	**51277228**
Repair Cable RepLine (AMP Tyco MCP 1,5)			5	**51277214**
			5	**51277215**
Repair Cable RepLine (AMP Tyco MCP 2,8)			5	**51277217**
Repair Cable RepLine (AMP Tyco MCP 6,3)			5	**51277221**
Repair Cable RepLine (AMP Tyco MQS)			5	**51277207**
			5	**51277211**
Repair Cable RepLine (AMP Tyco MT II | AMP Tyco MCP 1,5)			5	**51277213**
Repair Cable RepLine (AMP Tyco MT II)			5	**51277209**
Repair Cable RepLine (AMP Tyco SPT | AMP Tyco MCP 6,3 | AMP Tyco MCP 4,8)			5	**51277225**
Repair Cable RepLine (AMP Tyco SPT)			5	**51277223**
Repair Cable RepLine (Delphi Ducon 0,8 F)			5	**51277201**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 3,6)	3,9	🟡	50	**50282039**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 4)	4,7	⚫	50	**50282085**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,2)	5,5 to 5,8	🔴	50	**50282081**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,4)	5,9 to 6,3	🟡	50	**50282058**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 7,2)	7,9 to 8,2	⚪	50	**50282044**
Squeeze Connector Crimpseal II		🔴	75	**50252552**
Universal Container		⚪	6	**99994524**
		⚪	1	**99994534**

Accessories	see	DU	
Crimping Pliers Insert	Katalog08	1	**95942187**
	Katalog08	1	**95942347**
Crimping Pliers CrimPro 10	Page 53	1	**95942330**
	Page 53	1	**95942331**
Crimping Pliers CrimPro 30	Page 54	1	**95942164**
	Page 54	1	**95942166**
Frame, assortment box HandyBox	Katalog04	1	**99994532**
Gas Soldering Torch Burner	Page 66	1	**95921001**
Hot Air Dryer HeatGun	Page 66	1	**95920000**

» APPLICATION EXAMPLE

Connecting the cables

The key benefit of our RepLines is that the contacts are already optimally crimped with the silicone lead. This means that the user does not have to carry out the crimping process.

The repair line merely has to be connected with the cable in the vehicle (shown here in yellow). Both cables must be stripped beforehand (e.g. with our stripper).

A crimp, shrink or soldered shrink connector can be used for the connection.

The cables are then crimped with the connector one after the other. In this example with our crimping pliers CrimPro10, alternatively with CrimPro30.

The connectors are then shrunk with a hot air fan.

Socket

Number of Poles:	13 terminal	Material:	Plastic
Trailer Hitch:	with rear fog light deactivation	Shape:	Flat
		Info:	with seal
Mounting Type:	Screw Connection		Outflow middle

Voltage V	Capacity at 12V	Overall Height mm	DIN / ISO	DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)	45	11446	1	**51305031**
Content				**QU**	
Seal, trailer socket				1	**51305170**

Socket

Tight seal on both sides of the contact areas thanks to moulded contacts, an additional insulator and individually sealed conductors. This thereby prevents the infiltration of water into the cable harness by way of the contacts, thus preventing any time- and cost-intensive damage that occurs as a result. The front section of the socket remains replaceable in its entirety, however. If the cover is torn off, or if the socket body is externally damaged, the housing can be replaced quickly and simply.

Number of Poles:	13 terminal	Contact surface:	Copper-tin-(zinc) electrolyte
Plug Type:	Crimp Contact	IP-Code:	IP 69K
Material:	GRP (Glass fibre Reinforced Plastic)	Info:	with gaskets/seals with contacts Outflow middle Outflow left

Voltage V	Capacity at 12V			DIN / ISO	DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)			11446	1	**51305037**
Content	**DIN / ISO**	**Cross section mm²**	**Number of Poles terminal**	**Diameter mm**	**QU**	
Crimp Connector RK 2,5 (TE Connectivity)		1 to 2,5		2,5	13	**50251868**
Housing	11446		13		1	**51305037015**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,4)		1 to 2,5		5,9 to 6,3	13	**50282058**
Accessories		**Cross section mm²**	**see**	**DU**		
Crimping Pliers Insert		0,5 to 1 1,5 to 2,5	Katalog08	1		**95942346**
Crimping Pliers CrimPro 10			Page 53	1		**95942331**

Socket

The second micro-switch can be used universally. This is often used to switch off the Park Distance Control (PDC).

Number of Poles:	13 terminal	Contact surface:	Copper-tin-(zinc) electrolyte
Trailer Hitch:	with rear fog light deactivation	Shape:	Flat
Mounting Type:	Screw Connection	Info:	with two micro switches with seal Outflow middle
Material:	Plastic	Combi Switch Function:	Directional Contact

Voltage V	Capacity at 12V	DIN / ISO	DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)	11446	1	**51305036**
Content			**QU**	
Seal, trailer socket			1	**51305170**

Socket

Socket can be fully integrated and flexibly positioned, with new fastening points for mounting in or on the swan-neck towbar or fixing panel. The double contact system combines with the single-conductor seals to make it impossible for moisture to penetrate into the vehicle electrical system

even launching a sports boat into the water will pose no problems (water-tight to a depth of 1 m).

Number of Poles:	13 terminal	**Contact surface:**	Copper-tin-(zinc) electrolyte
Plug Type:	Crimp Contact	**IP-Code:**	IP X9K
Material:	Polyamid 6.6	**Info:**	with contacts
			with gaskets/seals
			Side Connector

Voltage V	Capacity at 12V		DIN / ISO		DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)		11446	NEW	1	**51305038**
Content	**Cross section mm²**	**Diameter mm**	**Colour**	**QU**		
Crimp Connector RK 2,5 (TE Connectivity)	0,5 to 1	2,5		8		**50251867**
	1 to 2,5	2,5		6		**50251868**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,4)	0,35 to 1	5,9 to 6,3	⚫	8		**50282057**
	1 to 2,5	5,9 to 6,3	🟡	6		**50282058**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 5,2)		5,4 to 5,6	⚪	5		**50282043**

Plug

Number of Poles:	13 terminal
Mounting Type:	Screw Connection
	Bayonet
Terminal/Clamp:	with cable gland
Material:	Plastic
Info:	with seal
	with strain relief

Voltage V	Capacity at 12V	Cable-Ø mm	DIN / ISO	DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)	11,4 to 14	11446	1	**51305630**
Accessories			**see**	**DU**	
Sealing-/Protection Plugs			Katalog04	1	**50281030**
			Katalog04	1	**50281049**

Socket Adapter

Trailer Hitch:	from 13 to 7 pin
Material:	Plastic
Length:	52 mm

Voltage V	Capacity at 12V	DIN / ISO	DU	Article no.
12	16 A (1,5 mm²) 25 A (2,5 mm²)	11446 1724 N-Typ	1	**51305472**

Base Plate, trailer hitch

This trailer hitch base plate is suitable for making an extension lead.

Number of Poles:	7 terminal	**Info:**	with screws
	13 terminal		
Material:	Plastic		

Voltage V		DU	Article no.
12		1	**51305025**

Socket

The USB connection's very high charging current of 3000 mA ensures reliable charging of electronic devices such as smartphones, mobile phones, navigation devices, digital cameras and even tablets. Can be mounted with or without bolted-on plate.

Terminal/Clamp:	with USB socket	**Output Voltage USB:**	5 V
Cable Length:	150 mm	**Output current USB:**	3000 mA
Info:	with overvoltage protection		
	with bolted-on plate		
	with screws		
	Electromagnetic Compatability (EMC)		
	with lid		

Voltage V	Fitted Diameter mm	DU	Article no.
12 to 24	27,8	1	**51306862**

Socket

The USB connection's very high charging current of 3000 mA ensures reliable charging of electronic devices such as smartphones, mobile phones, navigation devices, digital cameras and even tablets.

Terminal/Clamp:	with USB socket	**Info:**	with overvoltage protection
Material:	ABS (Acrylonitrile-Butadiene-Styrene Copolymerisate)		with screws
Fitting Position:	Body	**Output Voltage USB:**	5 V
Cable Length:	1000 mm	**Output current USB:**	3000 mA
		WxHxD:	34 x 15,25 x 42 mm

Voltage V		DU	Article no.
12 to 24		1	**51306863**

Socket

The USB connection's very high charging current of 3000 mA ensures reliable charging of electronic devices such as smartphones, mobile phones, navigation devices, digital cameras and even tablets.

Terminal/Clamp:	with USB socket	**Output Voltage USB:**	5 V
Material:	PC (Polycarbonate)	**Output current USB:**	3000 mA
Fitting Position:	Body	**WxHxD:**	95 x 33 x 85 mm
Info:	with overvoltage protection		
	with screws		
	Electromagnetic Compatability (EMC))		
	with screws		

Voltage V	Rated current A	Inner diameter mm	DIN / ISO	DU	Article no.
12 to 24	16	20,95	SAE	1	**51306864**

Plug Connector

Material:	PVC	**Info:**	with buckle protection

Length mm	Cable-Ø mm		DU	Article no.
30	4	NEW	10	**50281006**
for article number				
51306060, 51306063, 51306061, 51306147, 51306132, 51306132099, 51306142, 51306125				

» MAGCODE POWER SYSTEM

The MagCode Power System is ideally suited to cars, lorries, motorbikes, mobile homes and boats. It is currently used for the external load maintenance of the Maybach, Bentley and Mercedes AMG gullwing and convertible cars. It is also included as a series option with the new Mercedes Actros.

12/24 V

MagCode Power System Pro

Plug

Mounting Type:	Screw Connection
IP-Code:	IP 42
Temperature range:	to +70 °C

Rated current A	Wire cross section mm²	Voltage V	DU	Article no.
to 25	2,5	12	1	**51306108**
		24	1	**51306111**

MagCode Power System Pro

Socket

Mounting Type:	Pre-assembled
IP-Code:	IP 5K9K
Temperature range:	to +70 °C

Rated current A	Fitted Diameter mm	Fitting Depth mm	Voltage V	DU	Article no.
to 25	28	16,5	12	1	**51306107**
			24	1	**51306110**
Accessories			**see**	**DU**	
Cover, power socket MagCode			Katalog04	1	**51306057**

MagCode Power System Pro

Plug Connector

| Mounting Type: | Screw Connection | Info: | with socket |
| | Pre-assembled | | with plug |

Voltage V	Rated current A	DU	Article no.
12	to 25	1	**51306106**

Content		Wire cross section mm²	QU	
Plug MagCode Power System Pro		2,5	1	**51306108**
Socket MagCode Power System Pro			1	**51306107**
Accessories		see	DU	
Cover, power socket MagCode		Katalog04	1	**51306057**

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MagCode Power System Pro

Plug Connector

| Mounting Type: | Screw Connection | Info: | with socket |
| | Pre-assembled | | with plug |

Voltage V	Rated current A	DU	Article no.
24	to 25	1	**51306109**

Content		Wire cross section mm²	QU	
Plug MagCode Power System Pro		2,5	1	**51306111**
Socket MagCode Power System Pro			1	**51306110**
Accessories		see	DU	
Cover, power socket MagCode		Katalog04	1	**51306057**

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» JUMPER CABLES

The right design for every requirement and every use:
We recommend the jumper cables carstart and truck-start as a professional tool for everyday use. The carboost and truckboost cables are indispensable starting aids in any vehicle. The bikestart starting aid system is the right solution for motorcycle riders. All cables are supplied in robust bags to protect them.

carstart safe

Jumper Cables

This jumper cable is made of CCA conductor material (copper coated aluminium), which offers the same conductance as a copper cable with a cross-section of 25 mm². The professional pliers made from steel plate are reinforced with cast iron inserts.

Cross section:	25 mm²	for diesel engines from capacity:	3000 cc
Material:	CCA (Copper Coated Aluminium)	Info:	with steel plate pliers
for petrol engines to capacity:	5500 cc		with cast iron insert
			with earth strap
			with overvoltage protection
			with storage bag

Voltage V	Rated current A	Design	Length m	DU	Article no.
12 to 24	to 350	Insulated	4	1	**52289865**

carstart safe

Jumper Cables

Cross section:	25 mm²	for diesel engines from capacity:	3000 cc
Material:	Copper	Info:	with steel plate pliers
for petrol engines to capacity:	5500 cc		with cast iron insert
			with overvoltage protection
			with storage bag

Voltage V	Rated current A	Design	Length m	DU	Article no.
12 to 24	to 350	Insulated	3,5	1	**52289765**

carboost safe

Jumper Cables

Cross section:	25 mm²
Material:	CCA (Copper Coated Aluminium)
for petrol engines to capacity:	5500 cc

for diesel engines from capacity:	3000 cc
Info:	with plastic pliers
	with overvoltage protection
	with storage bag

Voltage V	Rated current A	Design	DIN / ISO	Length m	DU	Article no.
12 to 24	to 350	Insulated	72553	3,5	1	**52289950**

carboost safe

Jumper Cables

Cross section:	35 mm²
Material:	CCA (Copper Coated Aluminium)
for petrol engines to capacity:	7000 cc

for diesel engines from capacity:	4000 cc
Info:	with plastic pliers
	with overvoltage protection
	with storage bag

Voltage V	Rated current A	Design	DIN / ISO	Length m	DU	Article no.
12 to 24	to 480	Insulated	72553	4,5	1	**52289953**

Battery Post Clamp

Number of Poles:	1 terminal
Battery Clamp Version:	Terminal Screw
	Pressed Part
Terminal post screw:	single-sided mounting

Material:	Brass
Surface:	Tin-plated
Info:	with bolts

Battery Pole Diameter mm	Clamp	Thread Length mm	Thread Size	DU	Article no.
17,5	+	28,5	M8	5	**52285034**

Content			Thread Size	QU	
Screw			M8 x 28	1	**52285520**

Accessories		Rated current A	see	DU	
Cover, battery post clamp			Katalog04	10	**50281115**
Fuse CF		50	Katalog04	1	**50295880**
		75	Katalog04	1	**50295881**
		100	Katalog04	1	**50295882**
		125	Katalog04	1	**50295883**
		150	Katalog04	1	**50295884**
		175	Katalog04	1	**50295885**
		200	Katalog04	1	**50295886**
		250	Katalog04	1	**50295887**
		300	Katalog04	1	**50295888**
Screw			Page 26	5	**52285560**

Battery Post Clamp

Cross section:	to 70 mm²	**Surface:** Zinc-coated
Battery Clamp Version:	Terminal Screw	**Version:** Renault, Peugeot
Material:	Steel	
	Plastic	

Battery Pole Diameter mm	Clamp	Thread Size	Colour		DU		Article no.
17,5	+	M8	🔴	NEW	1		**52285191**

Battery Post Clamp

Cross section:	to 70 mm²	**Surface:** Zinc-coated
Battery Clamp Version:	Terminal Screw	**Version:** Renault, Peugeot
Material:	Steel	
	Plastic	

Battery Pole Diameter mm	Clamp	Thread Size	Colour		DU		Article no.
15,9	-	M8	🟢	NEW	1		**52285192**

Screw

Battery Clamp Version:	with auxilary port	**Info:** with nut

Thread Size		DU	Article no.
M8 x 30	NEW	5	**52285560**

Accessories	see	DU	
Cable Connector	Katalog04	100	**50251566**

HERTH+BUSS

NRGkick 32A

Charge Cable, electric vehicle

The NRGkick 32 A charging unit is more than just a Wallbox. NRGkick expands the options for charging your electric vehicle far beyond public charging stations. Electricity is available almost everywhere; NRGkick makes it accessible for your electric car with a charging capacity of up to 22 kW. With NRGkick, the Wallbox migrates from the wall of your home into the charger cable itself. Thanks to the adapter set available as an accessory, you can enjoy unrestricted flexibility and charge anywhere quickly.

- option of setting the charging current easily and directly using a push-button on the NRGkick
- integrated residual-current-protection mechanism (AC 30 mA, DC 6 mA) for direct and alternating residual currents, for your safety
- automatic detection of NRGkick adapters, PE conductor testing through loop-impedance measurement, switching contact diagnosis
- protected against theft and tampering
- extremely compact dimensions
- verified by TÜV Technical Inspection Association and CE-compliant
- with energy measurement module and Bluetooth
- Use the free NRGkick app to view charging data (performance, energy, voltage, current, charging costs and range) and control the charging station.
- adjustment of the charging current also possible while charging and in increments of 1 A between 6 A and 32 A

| **Version:** | Bluetooth | **Info:** | Electromagnetic |
| **Temperature range:** | -30 to +50 °C | | Compatability (EMC)) |

DIN / ISO	Cable Length m	IP-Code		DU	Article no.
IEC/EN 62752 IEC/EN 62196-1 IEC/EN 60309-2	5	IP 66	NEW	1	**95960101**
Accessories			see	DU	
Socket Adapter NRGkick 32A/32A light			Page 27	1	**95960170**

NRGkick 32A light

Charge Cable, electric vehicle

The NRGkick 32 A light charging unit is more than just a Wallbox. NRGkick expands the options for charging your electric vehicle far beyond public charging stations. Electricity is available almost everywhere; NRGkick makes it accessible for your electric car with a charging capacity of up to 22 kW. With NRGkick, the Wallbox migrates from the wall of your home into the charger cable itself. Thanks to the adapter set available as an accessory, you can enjoy unrestricted flexibility and charge anywhere quickly.

- option of setting the charging current easily and directly using a push-button on the NRGkick
- integrated residual-current-protection mechanism (AC 30 mA, DC 6 mA) for direct and alternating residual currents, for your safety
- automatic detection of NRGkick adapters, PE conductor testing through loop-impedance measurement, switching contact diagnosis
- protected against theft and tampering
- extremely compact dimensions
- verified by TÜV Technical Inspection Association and CE-compliant

| **Temperature range:** | -30 to +50 °C | **Info:** | Electromagnetic |
| | | | Compatability (EMC)) |

DIN / ISO	Cable Length m	IP-Code		DU	Article no.
IEC/EN 62752 IEC/EN 62196-1 IEC/EN 60309-2	5	IP 66	NEW	1	**95960102**
Accessories			see	DU	
Socket Adapter NRGkick 32A/32A light			Page 27	1	**95960170**

NRGkick 32A/32A light

Socket Adapter

With the adapter set for the NRGkick 32 A and NRGkick 32 A light, it is possible to charge an electric vehicle at any conventional power socket. All adapters feature a detection function and an original EV charger cable. Contents:

- adapter, CEE 32 A to CEE 16 A, max. 11 kW
- adapter, CEE 32 A to CEE 16 A blue, max. 3.7 kW
- adapter, CEE 32 A to Schuko, max. 13 A

			DU	Article no.
		NEW	1	**95960170**
for article number				
95960101, 95960102				

Fuel Hose

Material:	NBR (nitrile butadiene rubber)
	Rubber with textile reinforcement
	Polychloroprene (Neoprene)
Temperature range:	-35 to +110 °C
DIN / ISO:	73379-2A
Operating Pressure:	10 bar
Burst Pressure:	30 bar
Info:	not suitable for biodiesel

Fuel hoses made from a rubber top layer and textile inlay for conveying petrol (also E10) and diesel (not biodiesel). Resistant to oil, heat, ozone and the effects of the weather.

Packing Type	Wall thickness mm	Outer Diameter mm	Inner diameter mm	Bending radius mm	QU	DU	Article no.
Coil	2,65	8,5	3,2	30	Metre	15	**51280032**
	3	10,5	4,5	35	Metre	15	**51280045**
		12	6	60	Metre	15	**51280060**
		13,5	7,5	75	Metre	10	**51280075**
		15,5	9,5	70	Metre	10	**51280095**
	3,5	19	12	80	Metre	5	**51280120**
Accessories					see	DU	
Wall Mounting, fuel lines					Page 28	1	**51280660**

Wall Mounting, fuel lines

WxHxD:	500 x 750 x 120 mm

Multiple mult	Colour	DU	Article no.
6	○	1	**51280660**

Co-flex

Corrugated Pipe

Design:	Two-piece
Material:	Polyamid 6
Temperature range:	-40 to +150 °C
Inspection Tag:	UL94 V2
	FMVSS 302
Chemical Properties:	UV resistant
	Solvent resistant
	Oil resistant
Info:	with marten protection
Packing Type:	Ring

Ideal for follow-up installation and repairs.
Areas of application:
- automotive industry
- ship and train construction
- mechanical engineering
- switching cabinets
- heating and air-conditioning technology
- electrical industry
- computers, hifi

Wall thickness mm	Nominal Size mm	Outer Diameter mm	Inner diameter mm	Bending radius mm	QU	DU	Article no.
0,1	6	10	6,3	30	Metre	50	**51271106**
0,15	10	13,5	8,8	55	Metre	50	**51271110**
0,2	14	18,7	13,2	75	Metre	50	**51271114**
0,3	20	25,7	20,2	105	Metre	50	**51271120**
	23	31,3	23,9	125	Metre	50	**51271123**
	37	43,2	32,5	170	Metre	25	**51271137**
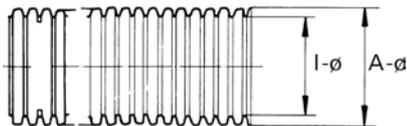
Plug Housing Set

Number of Poles: 2 terminal
Version: Neutral
suitable for: VAG

Plug Type	Socket Width mm	IP-Code	DU	Article no.
Blade Terminal Sleeve	1,5	IP X7	1	**50390652**

Content	Number of Poles terminal	Cross section mm²	QU	
Crimp Connector MT II (TE Connectivity)		0,2 to 0,5	3	**50251901**
		0,5 to 1	3	**50251902**
Plug Housing	2		1	**50390670**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 3,6)		0,35 to 0,5	2	**50282038**
		0,5 to 0,75	2	**50282040**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT II | AMP Tyco JPT)	0,2 to 0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942345**
Crimping Pliers CrimPro 10		Page 53	1	**95942330**
		Page 53	1	**95942331**
Release Tool, flat-/round plug (AMP Tyco MT I | AMP Tyco MT II)		Katalog08	1	**95945336**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

Plug Housing Set

Number of Poles: 2 terminal
Version: Neutral
suitable for: VAG
MERCEDES-BENZ

Plug Type	Socket Width mm	IP-Code	DU	Article no.
Blade Terminal Sleeve	2,8	IP X7	1	**50390653**

Content	Number of Poles terminal	Cross section mm²	QU	
Crimp Connector JPT (TE Connectivity)		0,5 to 1	3	**50251899**
Plug Housing	2		1	**50390662**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,2)		0,5 to 1,5	2	**50282081**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco JPT ELA)	0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942193**
Crimping Pliers CrimPro 30		Page 54	1	**95942164**
		Page 54	1	**95942166**
Release Tool, flat-/round plug (AMP Tyco JPT | AMP Tyco JT | AMP Tyco SPT | AMP Tyco ST)		Katalog08	1	**95945335**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

for article number				
82710380, 82710249				

Plug Housing Set

Number of Poles: 3 terminal
Version: Neutral
suitable for: VAG

Plug Type	Socket Width mm	IP-Code	DU	Article no.
Blade Terminal Sleeve	1,5	IP X7	1	**50390654**

Content	Number of Poles terminal	Cross section mm²	QU	
Crimp Connector MT II (TE Connectivity)		0,5 to 1	4	**50251902**
Plug Housing	3		1	**50390664**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 3,6)		0,5 to 0,75	3	**50282040**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 3,6)			2	**50282041**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT II | AMP Tyco JPT)	0,2 to 0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942345**
Crimping Pliers CrimPro 10		Page 53	1	**95942330**
		Page 53	1	**95942331**
Release Tool, flat-/round plug (AMP Tyco MT I | AMP Tyco MT II)		Katalog08	1	**95945336**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

Plug Housing Set

Number of Poles: 4 terminal
Version: Neutral
suitable for: VAG

Plug Type	Socket Width mm	IP-Code	DU	Article no.
Blade Terminal Sleeve	1,5	IP X7	1	**50390655**

Content	Number of Poles terminal	Cross section mm²	QU	
Crimp Connector MT II (TE Connectivity)		0,5 to 1	5	**50251902**
Plug Housing	4		1	**50390666**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 3,6)		0,5 to 0,75	4	**50282040**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 3,6)			3	**50282041**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT II | AMP Tyco JPT)	0,2 to 0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942345**
Crimping Pliers CrimPro 10		Page 53	1	**95942330**
		Page 53	1	**95942331**
Release Tool, flat-/round plug (AMP Tyco MT I | AMP Tyco MT II)		Katalog08	1	**95945336**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

Plug Housing Set

Number of Poles: 4 terminal
Version: Neutral
suitable for: VAG

Plug Type	Socket Width mm	IP-Code	DU	Article no.
Blade Terminal Sleeve	2,8	IP X7	1	**50390656**

Content	Number of Poles terminal	Cross section mm²	QU	
Crimp Connector JPT (TE Connectivity)		0,5 to 1	5	**50251899**
Plug Housing	4		1	**50390690**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,2)		0,5 to 1,5	4	**50282081**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 5,2)			3	**50282043**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco JPT ELA)	0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942193**
Crimping Pliers CrimPro 30		Page 54	1	**95942164**
		Page 54	1	**95942166**
Release Tool, flat-/round plug (AMP Tyco JPT | AMP Tyco JT | AMP Tyco SPT | AMP Tyco ST)		Katalog08	1	**95945335**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

Assortment, plug housings

Version: Neutral
suitable for: VAG

The plug housings for connecting flat plugs or blade receptacles in sizes 1.5 and 2.8 mm facilitate electrical connection between the cable harnesses and a variety of electronic components. A safety slider which works in both directions (even for designs with two rows) is integrated into the housing. Through simple and safe handling, this allows the secondary lock of the contacts to be realised and thereby also guarantees the safety of the electrical contacting. It is only possible to connect the plug if the secondary lock is active. The plug housings can be used in all areas of a vehicle (engine bay, interior, areas exposed to splash water etc.). With these housings (in a neutral version), we offer a reliable coupling connection for vehicle construction.

IP-Code		Quantity	DU	Article no.
IP X7		558	1	**54290200**

Content	Number of Poles terminal	Cross section mm²	QU	
Assortment Box			1	**99994522**
Crimp Connector JPT (TE Connectivity)		0,5 to 1	50	**50251899**
Crimp Connector JPT | MCP 2,8 (TE Connectivity)		0,5 to 1	50	**50251896**
Crimp Connector MCP 1,5 | MT II (TE Connectivity)		0,5 to 1	50	**50251468**
Crimp Connector MT II (TE Connectivity)		0,5 to 1	50	**50251902**
Plug Housing	2		10	**50390662**
	2		10	**50390663**
	2		10	**50390670**
	2		10	**50390671**
	4		3	**50390666**
	4		3	**50390667**
	4		3	**50390690**
	4		3	**50390691**
	6		1	**50390672**
	6		1	**50390673**
	6		1	**50390674**
	6		1	**50390675**
	8		1	**50390660**
	8		1	**50390661**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 3,6)		0,5 to 0,75	100	**50282040**
Sealing-/Protection Plugs ELA (AMP Tyco ELA 5,2)		0,5 to 1,5	100	**50282081**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 3,6)			50	**50282041**
Sealing-/Protection Plugs ELB (AMP Tyco ELB 5,2)			50	**50282043**

Accessories	Cross section mm²	see	DU	
Crimping Pliers Insert (AMP Tyco JPT ELA)	0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942193**
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT II | AMP Tyco JPT)	0,2 to 0,35 0,5 to 1 1,5 to 2,5	Katalog08	1	**95942345**
Crimping Pliers CrimPro 10		Page 53	1	**95942330**
		Page 53	1	**95942331**
Crimping Pliers CrimPro 30		Page 54	1	**95942164**
		Page 54	1	**95942166**
Frame, assortment box HandyBox		Katalog04	1	**99994532**
Release Tool, flat-/round plug (AMP Tyco JPT | AMP Tyco JT | AMP Tyco SPT | AMP Tyco ST)		Katalog08	1	**95945335**
Release Tool, flat-/round plug (AMP Tyco MT I | AMP Tyco MT II)		Katalog08	1	**95945336**
Release Tool, flat-/round plug (AMP Tyco MT II)		Katalog08	1	**95945370**
Release tool, housing (VAG | FEP | Opel | Fiat)		Page 51	1	**95945445**

MICRO2

Fuse

Fuse type: Micro blade fuse
Material: Nylon
Surface: Silver-plated
WxHxD: 9,1 x 15,3 x 3,8 mm

The MICRO2 fuse fulfils all the demands asked of a modern vehicle fuse. The small size means that multiple circuits can be fused in even the tightest of spaces. Very small dimensions combined with the high temperature resistance required for tough ambient conditions make the MICRO2 fuse particularly recommendable.

Voltage V	Rated current A	Colour	DU	Article no.
to 32	5	🟤	5	**50295645**
	7,5	🟤	5	**50295646**
	10	🔴	5	**50295647**
	15	🔵	5	**50295648**
	20	🟡	5	**50295649**
	25	⚪	5	**50295650**
	30	🟢	5	**50295651**
Accessories		**see**	**DU**	
Fuse Tester		Katalog08	1	**90945340**

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MICRO3

Fuse

Fuse type: Micro blade fuse
Material: Nylon
Surface: Silver-plated
WxHxD: 14,4 x 18,1 x 4,2 mm

The MICRO3 fuse has three contacts, with two fuse elements sharing a common central contact. The small size means that multiple circuits can be fused in even the tightest of spaces. Very small dimensions combined with the high temperature resistance required for tough ambient conditions make the MICRO3 fuse particularly recommendable.

Voltage V	Rated current A	Colour	DU	Article no.
to 32	5	🟤	5	**50295665**
	7,5	🟤	5	**50295666**
	10	🔴	5	**50295667**
	15	🔵	5	**50295668**
Accessories		**see**	**DU**	
Fuse Tester		Katalog08	1	**90945340**

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MULTI6

Fuse

Fuse type:	Multi Plug-in Fuses
Material:	PSU (Polysulfone)
WxHxD:	40 x 28,2 x 5 mm
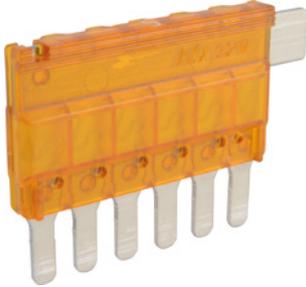
One multi flat-type plug-in fuse with one in-feed and six outlets. This allows six circuits to be fused in the smallest possible space. The multi flat-type plug-in fuse is used in various models from Mercedes-Benz.

Voltage V	Rated current A	Colour	DU	Article no.
to 32	5	🟤	1	**50295162**
	7,5	🟤	1	**50295163**

MCase

Fuse

Fuse type:	Block Fuse
DIN / ISO:	8820-4
	JASO D612
Shape:	Slitted
WxHxD:	9,7 x 17,5 x 6,2 mm

Voltage V	Rated current A	Colour		DU		Article no.
to 32	20	🔵	NEW	1		**50295353**
	25	⚪	NEW	1		**50295354**
	30	🌸	NEW	1		**50295355**
	40	🟢	NEW	1		**50295356**
	50	🔴	NEW	1		**50295357**
	60	🟡	NEW	1		**50295358**

ATO

Fuse Kit

Fuse type:	Standard Flat Fuse
DIN / ISO:	72581/3C
	SAE J 1284
	8820-3
	JASO D612
WxHxD:	19,05 x 18,54 x 5 mm

The ATO fuse is the standard fuse for vehicle circuits. The rated power is shown via the colour coding. Features include a three-part structure with copper contacts, low voltage drop and high reliability in harsh ambient conditions. The transparent material means that burnt-out fuses can be identified easily.

Voltage V	Rated current A	Quantity	DU		Article no.
to 32	5 to 30	7	1		50296477066

Content	Fuse type	Rated current A	Colour	QU	
Fuse ATO	Standard Flat Fuse	5		1	**50295405**
	Standard Flat Fuse	7,5		1	**50295407**
	Standard Flat Fuse	10		1	**50295410**
	Standard Flat Fuse	15		1	**50295415**
	Standard Flat Fuse	20		1	**50295420**
	Standard Flat Fuse	25		1	**50295425**
	Standard Flat Fuse	30		1	**50295430**

Accessories			see	DU	
Fuse Tester			Katalog08	1	**90945340**

MINI

Fuse Kit

Fuse type:	Mini-Flat Fuse
DIN / ISO:	72581/3F
	8820-3
	JASO D612
	SAE J2077
Surface:	Silver-plated
WxHxD:	10,9 x 16,3 x 3,8 mm

The mini flat-type plug-in fuse is quickly becoming the new standard for circuit protection in vehicles. Its miniature design enables more circuits to be protected with an overall low space requirement. Very small dimensions combined with the high temperature resistance required for tough ambient conditions make the mini fuse particularly recommendable.

Voltage V	Rated current A	Quantity	DU		Article no.
to 32	5 to 30	7	1		50296577066

Content	Fuse type	Rated current A	Colour	QU	
Fuse MINI	Mini-Flat Fuse	5		1	**50295775**
	Mini-Flat Fuse	7,5		1	**50295776**
	Mini-Flat Fuse	10		1	**50295777**
	Mini-Flat Fuse	15		1	**50295778**
	Mini-Flat Fuse	20		1	**50295779**
	Mini-Flat Fuse	25		1	**50295780**
	Mini-Flat Fuse	30		1	**50295781**

Low Profile MINI

Fuse Kit

Fuse type:	Low profile mini blade fuse
WxHxD:	10,9 x 9 x 3,8 mm

Low-profile mini fuses offer similar performance characteristics to standard mini fuses. Their low height saves space and weight. They are designed for open cable lugs/bifurcated contacts, so that there is no need for contact sleeves and thus enabling weight and material savings when designing fuse boxes.

Voltage V	Rated current A	Quantity	DU		Article no.
to 58	2 to 30	14	1	🔴	50296797066

Content	Fuse type	Rated current A	Colour	QU	
Fuse Low Profile MINI	Low profile mini blade fuse	2	⚫	1	**50295790**
	Low profile mini blade fuse	3	🟣	1	**50295791**
	Low profile mini blade fuse	4	🩷	1	**50295792**
	Low profile mini blade fuse	5	🟤	1	**50295793**
	Low profile mini blade fuse	7,5	🟤	2	**50295794**
	Low profile mini blade fuse	10	🔴	2	**50295795**
	Low profile mini blade fuse	15	🔵	2	**50295796**
	Low profile mini blade fuse	20	🟡	2	**50295797**
	Low profile mini blade fuse	25	⚪	1	**50295798**
	Low profile mini blade fuse	30	🟢	1	**50295799**

MICRO2

Fuse Kit

Fuse type:	Micro blade fuse
Surface:	Silver-plated
WxHxD:	9,1 x 15,3 x 3,8 mm

Voltage V	Rated current A	Quantity	DU	Article no.
to 32	5 to 30	7	1	**50296647066**

Content	Fuse type	Rated current A	Colour	QU	
Fuse MICRO2	Micro blade fuse	5	🟤	1	**50295645**
	Micro blade fuse	7,5	🟤	1	**50295646**
	Micro blade fuse	10	🔴	1	**50295647**
	Micro blade fuse	15	🔵	1	**50295648**
	Micro blade fuse	20	🟡	1	**50295649**
	Micro blade fuse	25	⚪	1	**50295650**
	Micro blade fuse	30	🟢	1	**50295651**
Accessories			see	DU	
Fuse Tester			Katalog 08	1	**90945340**

MICRO3

Fuse Kit

Fuse type: Micro blade fuse
Surface: Silver-plated
WxHxD: 14,4 x 18,1 x 4,2 mm

Voltage V	Rated current A		Quanti-ty	DU	Article no.
to 32	5 to 15	NEW	4	1	**50296667066**

Content	Fuse type	Rated current A	Colour	QU	
Fuse MICRO3	Micro blade fuse	5	⬤	1	**50295665**
	Micro blade fuse	7,5	⬤	1	**50295666**
	Micro blade fuse	10	⬤	1	**50295667**
	Micro blade fuse	15	⬤	1	**50295668**

Accessories			see	DU	
Fuse Tester			Katalog08	1	**90945340**

MINI

Fuse Holder

Fuse type: for mini-blade plug-in fuse
DIN / ISO: 72581/3F
Info: connectable in series

The 4-fold fuse holder can be installed in line and can also be combined with a relay socket. This enables little power distributors to be created quickly and easily.

Voltage V	Rated current A	Cross section mm²	DU	Article no.
to 32	to 30	0,5 to 2,5	1	**50390444**

Accessories	Number of Poles terminal	Cross section mm²	see	DU	
Crimp Connector JPT (TE Connectivity)		0,5 to 1	Katalog04	50	**50251826**
			Katalog04	50	**50253316**
		1 to 2,5	Katalog04	50	**50251871**
Protective Cap, fuse holder			Katalog04	1	**50390444034**
Relay Socket	5		Katalog04	1	**50390903**

MINI

Fuse Holder

Fuse type: for mini-blade plug-in fuse
DIN / ISO: 72581/3F
Info: with gaskets/seals
connectable in series
with connecting cable
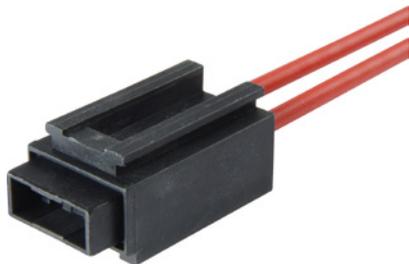
Voltage V	Rated current A	Cross section mm²	DU	Article no.
to 32	to 30	2,5	1	**50390902**

Accessories		see	DU	
Protective Cap, fuse holder		Katalog04	10	**50390902034**

MICRO2

Fuse Holder

Fuse type: for micro blade fuse
Info: with connecting cable

Voltage V	Rated current A	Cross section mm²	DU	Article no.
to 32	to 30	3,3	1	**50390657**

HERTH+BUSS

MICRO3

Fuse Holder

Fuse type: for micro blade fuse
Info: with connection line
with gaskets/seals

Voltage V	Rated current A		DU	Article no.
to 32	to 15	NEW	1	**50390715**

Accessories	see	DU	
Protective Cap, fuse holder	Katalog04	10	**50390715034**

ATO

Fuse Holder

Fuse type: for standard plug-in fuse
Material: Polyamid 6.6
DIN / ISO: 72581/3C
Surface: Tin-plated
Info: with connecting cable

Additional loads can be connected quickly and easily using the junction bracket. The fuse previously hidden in the fuse box is removed and replaced by the additional bracket. The fuse is then placed in the bottom connection point of the bracket in order to re- establish protection of the electrical circuit. The top connection point should be fitted with an additional fuse to protect the newly connected load.

Voltage V	Rated current A	Cross section mm²	Cable Length mm	DU	Article no.
to 32	to 15	1,3	120	1	**50390431**

MINI

Fuse Holder

Fuse type: for mini-blade plug-in fuse
Material: Polyamid 6.6
DIN / ISO: 72581/3F
Surface: Tin-plated
Info: with connecting cable

Additional loads can be connected quickly and easily using the junction bracket. The fuse previously hidden in the fuse box is removed and replaced by the additional bracket. The fuse is then placed in the bottom connection point of the bracket in order to re- establish protection of the electrical circuit. The top connection point should be fitted with an additional fuse to protect the newly connected load.

Voltage V	Rated current A	Cross section mm²	Cable Length mm	DU	Article no.
to 32	to 15	1,3	120	1	**50390430**

Low Profile MINI

Fuse Holder

Fuse type:	for low profile mini blade fuse
Material:	Polyamid 6.6
Surface:	Tin-plated
Info:	with connecting cable

Additional loads can be connected quickly and easily using the junction bracket. The fuse previously hidden in the fuse box is removed and replaced by the additional bracket. The fuse is then placed in the bottom connection point of the bracket in order to re- establish protection of the electrical circuit. The top connection point should be fitted with an additional fuse to protect the newly connected load.

Voltage V	Rated current A	Cross section mm²	Cable Length mm	DU	Article no.
to 58	to 10	1,3	120	1	**50390447**

MICRO2

Fuse Holder

Fuse type:	for micro blade fuse
Material:	Polyamid 6.6
Surface:	Tin-plated
Info:	with connecting cable

Additional loads can be connected quickly and easily using the junction bracket. The fuse previously hidden in the fuse box is removed and replaced by the additional bracket. The fuse is then placed in the bottom connection point of the bracket in order to re- establish protection of the electrical circuit. The top connection point should be fitted with an additional fuse to protect the newly connected load.

Voltage V	Rated current A	Cross section mm²	Cable Length mm	DU	Article no.
to 32	to 10	1,3	120	1	**50390614**

MEGA ATO MINI

Adapter, fuse

Fuse type:	from mega to standard
Bore Distance:	50,8 mm
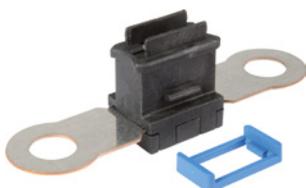
Ideal for integrating additional functions in a system with MEGA/BF2 fuse holders with a necessary fuse under 80 A. Also suitable for certain automatic fuses as well as standard fuses.

Voltage V	Rated current A	DU	Article no.
12 to 24	to 40	1	**50390443**

HERTH+BUSS

RepPipe

Repair Set, wash water line

1

Damaged sections of washing water lines can be replaced quickly and easily using the repair kit. Corrugated pipe connecting pieces, mounting clips and seals in three different diameters, in addition to a 2. 5-metre-long corrugated pipe, are all contained to repair corrugated pipelines with a nominal width of 4. 5. In addition, damaged sections of washing water lines made from smooth hoses can be repaired using connecting adapters with diameters of 3 mm and 4 mm. Moreover, hose fittings are contained for the direct connection of smooth hoses.

	Quanti-ty	DU	Article no.
	159	1	**54271025**
Content		QU	
Assortment Box		1	**99994521**
Clip RepPipe		28	**51271335**
Connector, pipes RepPipe		6	**51271320**
		6	**51271321**
		8	**51271330**
Corrugated Pipe		1	**51271140**
Hose Connector RepPipe		10	**51271310**
		10	**51271311**
Seal Ring, corrugated pipe RepPipe		30	**50280050**
		30	**50280055**
		30	**50280060**
Accessories	see	DU	
Seal Ring, corrugated pipe RepPipe	Katalog04	50	**50280061**

RepPipe

Repair Set, wash water line

Using the repair kit, a defective point in the washing water line can be quickly and easily replaced. Corrugated pipe connecting pieces, mounting clips and seals in four different diameters, in addition to a 50- centimetre-long corrugated pipe, are all contained to repair the corrugated pipeline with a nominal width of 4.5.

	QU	DU		Article no.
	Set	1	🟥	**54271026066**
Content		QU		
Clip RepPipe		4		**51271335**
Connector, pipes RepPipe		2		**51271330**
Corrugated Pipe		1		**51271140**
Seal Ring, corrugated pipe RepPipe		2		**50280050**
		2		**50280055**
		4		**50280060**
		2		**50280061**

1

RepVac

Repair set, negative pressure line

Faulty negative pressure lines made from rubber and hard plastic can be replaced with a modern negative pressure corrugated pipe with the repair kit. The following are included for repairs: straight and angled negative pressure connectors for corrugated pipe with a nominal width of 4.5 for connections with 3-4 mm and 5-7 mm, in addition to corrugated pipe connecting pieces. The assortment also includes fixing clamps, retaining clips and a 2.5-m-long corrugated pipe. The area of use ranges from passenger cars and commercial vehicles to motorcycles and construction machinery. Application examples include negative pressure connections on: air filter boxes, distributors, MAP sensors, pressure control valves, central locking systems, etc. Advantages of the repair kit:

- universally compatible
- better protection against pine marten bites
- permanently flexible and durable
- smaller diameter than rubber lines
- Replacement for negative pressure lines from older vehicles which are no longer available
- emergency fix in the event of breakdowns
- cheaper than moulded hoses

	Quantity	DU	Article no.
	89	1	**54271035**
Content		**QU**	
Assortment Box		1	**99994521**
Clamping Clip RepVac		20	**50268610**
Connector, pipes RepVac		8	**51271340**
		8	**51271341**
		8	**51271342**
		8	**51271350**
		8	**51271351**
		8	**51271352**
Corrugated Pipe		1	**51271140**
Holding Bracket RepVac		20	**50267222**
Accessories	**see**	**DU**	
Pliers, hose clamp	Katalog08	1	**95922000**

RepDPF

Repair set, pressure line

Material:	Silicone
Temperature range:	-40 to +350 °C
Chemical Properties:	Oil resistant
Info:	with connection line
	with protection hose
	with marten protection
	with clamps

Using this repair kit, defective connecting hoses between the diesel particle filter (DPF) and the differential pressure sensor can be quickly and simply replaced. Pine marten bites may also be responsible for damage, and not just mechanical and thermic influences. That's why this set is supplied with protective hoses that are resistant to both high temperatures and pine marten bites. They protect the silicone pressure lines from external influences. The spring band clamps included in the scope of supply ensure that the hoses are held securely.

Pressure hose connector diameter mm	Scope mm	Length m	DU	Article no.
5 6,5	10,0 to 12,5 11,0 to 13,5 11,5 to 14,0 12,5 to 15,0	1	1	**54271045**
Accessories		**see**	**DU**	
Pliers, hose clamp		Katalog08	1	**95922000**

Assortment, hose connectors

The great advantage of the 60 hose connectors in this assortment is in the hexagonal intermediate piece. This intermediate piece serves as a holder for a conventional spanner and simultaneously functions as both a "finger extension" and a lever. Mounting is made considerably easier, especially in tight spaces and hard-to-reach areas. Furthermore, the intermediate piece offers the option of attaching a cable tie to fix the hose in place. The travel stops at both ends also prevent the cable tie from slipping. In addition, the black colour of the oil-resistant connectors ensures that they blend in perfectly with the hoses usually found installed in vehicles. The connectors contained in the assortment box are suitable for connecting smooth hoses with an inner diameter of between 3 and 6 mm.

	Quanti-ty	DU	Article no.
🔴 NEW	60	1	**54271300**
Content		**QU**	
Adapter, hose connector		6	**51271314**
		6	**51271315**
		6	**51271316**
		6	**51271317**
		6	**51271318**
		6	**51271319**
Hose Connector		6	**51271312**
		6	**51271313**
Hose Connector RepPipe		6	**51271310**
		6	**51271311**

ClipFixbasic
ClipFixcycle
ClassicFixbasic
ClipFixtwins

Assortment, spacer

This assortment contains various elastomer spacers in the most typical sizes for each one. The branded ClassicFix and ClipFix spacers can be used as chafe protection, spacer or damper rings, or as line connectors in almost any vehicle. They are suitable for lines or hoses made of plastic, metal, elastomer and braided steel alike. The material ethylene propylene diene monomer rubber (EPDM) is characterised by its good weather- and ozone-resistance, and is suitable for use in a temperature range from -40 °C to +150 °C. The ClipFixbasic,

ClipFixcycle and ClipFixtwins variants are advanced developments of the ClassicFixbasic model. These products are fastenable and ideally suited for retrofitting in areas with restricted accessibility, among others. The repair-friendly handling, adhesive-free mounting and ease of removal are particular highlights of this range. The ClipFixtwins can connect multiple lines or hoses and are primarily used for holding lines and tolerance compensation for spacing.

	Quanti-ty	DU	Article no.
NEW 62		1	**54230010**
Content		**QU**	
Assortment Box		1	**99994522**
Spacer ClassicFixbasic (Poppe)		5	**50230808**
Spacer ClipFixbasic (Poppe)		4	**50230210**
		4	**50230306**
		4	**50230308**
		4	**50230309**
		2	**50230311**
		2	**50230312**
		5	**50230313**
		5	**50230315**
		5	**50230318**
		5	**50230320**
		5	**50230324**
Spacer ClipFixcycle (Poppe)		2	**50230804**
Spacer ClipFixtwins (Poppe)		5	**50230817**
		5	**50230818**

ELPARTS

INSTALLATION Connectors | Attachment parts | Cable straps | Gaskets+Grommets | Insulating tape | Hoses+Pipes | Cables+Cable connections | Battery accessories | Plug housings | Fuses | Plugs+Sockets | Assortments

Attachment parts – Effortless fixing!

Body fasteners for a range of vehicle areas

Body fasteners that secure connections between the body and body panelling, amongst other things, are used in a wide range of vehicle areas. We offer the ClipFix product group for this application. It comprises a wide product range, which is specifically made up of clips, blind rivets, retaining clips, expanding rivets, screws and other body fasteners.

Passt immer!

⁊⁊ HERTH+BUSS

Assortments

With our assortments, we offer a professional selection of our latest small parts, covering a multitude of everyday workshop applications. Delivered in a practical case, the required spare parts are always at hand in the workshop.

Professional range!
Compiled with
customers & workshops

Assortment, fuses **Low Profile MINI / Low Profile JCase** 5 - 60 A QU: 95 **54295040**	**Assortment, fuses** **MICRO2 / MICRO3** 5 - 30 A QU: 110 **54295640**	**Assortment, fuses** **ATO / MINI / MAXI** 3 - 80 A QU: 478 **54296212**
Assortment, fuses **ATO / Torpedo** 1 - 40 A QU: 354 **54295011**	**Assortment, fuses** **MAXI** 20 - 100 A QU: 24 **54295540**	**Assortment, fuses** **MINI** 3 - 30 A QU: 111 **54295570**
Assortment, circuit breakers **ATO** 7,5 - 25 A QU: 5 **54295060**	**Assortment, circuit breakers** **MINI** 7,5 - 25 A QU: 5 **54295090**	**Assortment, crimp connectors** 0,5 - 2,5 mm² QU: 806 **54254149**

Assortment, crimp connectors

0,5 - 2,5 mm²
QU: 603

54254139

Assortment, crimp connectors

0,35 - 2,5 mm²
QU: 825

54254161

Assortment, heatshrink tube

3 : 1
QU: 130
with inner adhesive

51273003

Assortment, cable entry grommets

QU: 197

54280011

Assortment, squeeze connectors

1 - 6 mm²
QU: 250

54254700

Assortment, squeeze connectors

0,5 -,2,5 mm²
QU: 250

54254100

Assortment, squeeze connectors

0,5 - 6 mm²
QU: 420

54254110

Assortment, squeeze connectors

0,5 - 2,5 mm²
QU: 295

54254113

**Assortment, plug housing
DT**
-55 - 125 °C
QU: 236

54290600

**Assortment, plug housing
Superseal**
QU: 314

54290050

**Assortment, plug housing
Superseal**
QU: 580

54290150

Assortment, plug housings

QU: 558
suitable for VAG

54290200

Tools

2

» RELEASE TOOLS

Changing contacts, simply!

One look at the internal workings of modern cars and even a layman can see that everything relating to electrics has become finer and smaller. Where in the past, large connections could be opened using unconventional methods, special tools are now required to carry out this function. We offer you all the latest release tools in an assortment box, which also protects your blades from bending or breaking!

UnlocBox 4all

Release Tool Set

The triple set of release tools can be used to open the most common connections. The set includes three cable release tools with six blades for common crimp connectors. The tips of the tools are made from high- quality spring band steel and have a tensile strength of approx. 1800 N/mm. This enables precise extraction.

				Quantity	DU	Article no.
				3	1	**95945424**
Content	Diameter mm	Socket Width mm	Plug Type	QU		
Release Tool, flat-/round plug (AMP Tyco CI 2 | AMP Tyco Mate-N-Lok | GHW RAM | GHW RSA2)	1,5 3,5		Round Plug Round Connector Sleeve	1		**95945337**
Release Tool, flat-/round plug (AMP Tyco JPT | AMP Tyco JT | AMP Tyco SPT | AMP Tyco ST)		2,8 4,8 5,8 6,3	Blade Terminal Blade Terminal Sleeve	1		**95945335**
Release Tool, flat-/round plug (AMP Tyco MT I | AMP Tyco MT II)		1,6	Blade Terminal Blade Terminal Sleeve	1		**95945336**

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Release tool, housing

		DU	Article no.
		1	**95945445**

Manufacturer Restriction: VAG
FEP
Opel
Fiat

Mounting Wedge

Material: Plastic   **WxH:**   27 x mm

Length mm	DU	Article no.
210	1	**95926000**

2

Squeeze Pliers

Example:

2

The crimping tool permits precise hexagonal crimping of ferrules with and without insulating collar. It is easy to work with ferrules with cross-sections of between 0.08 mm² and 16.0 mm² in one tool without the need for adjustment. With the swivel positioner fitted, accurate working is possible even for ferrules with a small cross-section. The swivel positioner can be attached to the front or back of the tool to permit optimum right-handed and left-handed use of the tool. The small width of the handle, the low weight and the ergonomic, non-slip soft grips guarantee excellent handling of the tool.

Cross section:	0,08 to 16 mm²	**Weight:**	500 g
Plug type:	Cable End Sleeve	**Tools:**	with positioner
WxH:	75 x mm	**Info:**	for unisolated contacts
			for isolated contacts

Length mm	Profile	DU	Article no.
215	⬡	1	**95942365**

Squeeze Pliers

Example:

The squeeze pliers are suitable for work on non- insulated cable lugs (DIN 46234, DIN 46230, DIN 46341) with closed crimp sleeves. The unlockable lock system and ergonomically formed soft hand grips ensure work is comfortable.

Cross section:	0,1 to 0,35 mm²	**Crimp form:**	W-shaped
	0,5 to 1,0 mm²	**Info:**	for unisolated contacts
	1,5 to 2,5 mm²		
	4 to 6 mm²		
	10 to 16 mm²		
Plug type:	Ring Connector		
Weight:	470 g		

Length mm	Profile		DU	Article no.
220	⌣	NEW	1	**95942059**

Crimping pliers

Cross section:	0,13 to 2,5 mm²	**Pliers head surface:**	burnished
Plug type:	Round Connector	**Weight:**	200 g
	Sleeve	**WxH:**	60 x mm
	Round Plug	**Tool Handle Colour:**	grey
	Blade Terminal Sleeve	**Info:**	for unisolated contacts
	Blade Terminal		

Length mm	Profile		DU	Article no.
225	⌂	NEW	1	**90942242**

Release Pliers, hose line

| Material: | CrMo 4130 (chrome-molybdenum 4130) | WxH: | 94 x 202 mm |

Length mm	DU	Article no.
202	1	**95922003**

2

CrimPro 10

Crimping Pliers

The CrimPro 10 offers a large range of processing options. Professional crimping precision for all common contacts thanks to linear die crimping. Ergonomic soft-hand grip also ensures fatigue-proof work. Inserts can be changed without additional tools.

Tools: Basic pliers without insert

Length mm		DU	Article no.
155		1	**95942330**
210		1	**95942331**
Accessories	**see**	**DU**	
Crimping Pliers Insert	Katalog08	1	**95942332**
	Katalog08	1	**95942346**
	Katalog08	1	**95942347**
Crimping Pliers Insert (ABS - 24V)	Katalog08	1	**95942350**
	Katalog08	1	**95942351**
	Katalog08	1	**95942354**
	Katalog08	1	**95942357**
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT II | AMP Tyco JPT)	Katalog08	1	**95942345**
Crimping Pliers Insert (AMP Tyco MT I ELA | AMP Tyco MT II ELA | AMP Tyco JPT ELA)	Katalog08	1	**95942348**
Crimping Pliers Insert (AMP Tyco SPT 5,8 ELA)	Katalog08	1	**95942126**
Crimping Pliers Insert (AMP Tyco Superseal)	Katalog08	1	**95942349**
Crimping Pliers Insert (GHW DFK 2)	Katalog08	1	**95942353**
Crimping Pliers Insert (GHW MDK 5 | AMP Tyco JPT)	Katalog08	1	**95942352**
Crimping Pliers Insert (GHW MDK 5 Plus | GHW RSA 2 Plus)	Katalog08	1	**95942359**
Crimping Pliers Insert (KOSTAL MLK 1,2)	Katalog08	1	**95942335**
Crimping Pliers Insert DT (Deutsch DT | Deutsch DTM)	Katalog08	1	**95942358**

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CrimPro 30

Crimping Pliers

The crimping pliers CrimPro 30 fulfil the highest demands for quality and functional use. Intended for industrial use, different crimp sets can be used to process cross-sectional areas of 0.1 to 25 mm². Professional crimping precision for all common contacts thanks to linear die crimping. The double guide system guarantees an even application of clamping force and precise, torsion-resistant guiding in all profiles, thus ensuring that even the smallest tolerances are maintained. The unlockable positive lock and an integrated fold positioner enable optimal fixing of the contacts. An ergonomic soft-hand grip ensures fatigue-proof work.

Tools: Basic pliers without insert

Length mm		DU	Article no.
220		1	**95942166**
270		1	**95942164**
Accessories	**see**	**DU**	
Crimping Pliers Insert	Katalog08	1	**95942119**
	Katalog08	1	**95942120**
	Katalog08	1	**95942161**
	Katalog08	1	**95942162**
	Katalog08	1	**95942177**
	Katalog08	1	**95942178**
	Katalog08	1	**95942179**
	Katalog08	1	**95942187**
	Katalog08	1	**95942188**
Crimping Pliers Insert (ABS - 24V)	Katalog08	1	**95942185**
	Katalog08	1	**95942186**
Crimping Pliers Insert (AMP Tyco JPT | AMP Tyco MCP 2,8)	Katalog08	1	**95942192**
Crimping Pliers Insert (AMP Tyco JPT ELA)	Katalog08	1	**95942193**
Crimping Pliers Insert (AMP Tyco MCP 1,5 ELA)	Katalog08	1	**95942143**
Crimping Pliers Insert (AMP Tyco MCP 1,5)	Katalog08	1	**95942142**
Crimping Pliers Insert (AMP Tyco MQS ELA)	Katalog08	1	**95942182**
Crimping Pliers Insert (AMP Tyco MQS)	Katalog08	1	**95942181**
Crimping Pliers Insert (AMP Tyco MT I | AMP Tyco MT I ELA | AMP Tyco MT II | AMP Tyco MT II ELA)	Katalog08	1	**95942190**
Crimping Pliers Insert (AMP Tyco Superseal)	Katalog08	1	**95942189**
Crimping Pliers Insert (GHW DFK 2)	Katalog08	1	**95942194**
Crimping Pliers Insert (GHW MDK 5)	Katalog08	1	**95942195**
Crimping Pliers Insert (KOSTAL DLK 1,2)	Katalog08	1	**95942147**
Crimping Pliers Insert (KOSTAL LKS 1,5 ELA)	Katalog08	1	**95942130**
	Katalog08	1	**95942131**
	Katalog08	1	**95942173**
Crimping Pliers Insert (KOSTAL LKS 1,5 ELA-U)	Katalog08	1	**95942168**
Crimping Pliers Insert (KOSTAL LKS 1,5)	Katalog08	1	**95942180**
Crimping Pliers Insert (KOSTAL MLK 1,2 ELA)	Katalog08	1	**95942141**
Crimping Pliers Insert (KOSTAL MLK 1,2 ELA-U)	Katalog08	1	**95942171**
	Katalog08	1	**95942196**
Crimping Pliers Insert (KOSTAL MLK 1,2)	Katalog08	1	**95942163**
	Katalog08	1	**95942167**
Crimping Pliers Insert (KOSTAL MQ 0,6)	Katalog08	1	**95942148**
	Katalog08	1	**95942149**
Crimping Pliers Insert (KOSTAL SLK 2,8 | KOSTAL SLK 2,8 ELA)	Katalog08	1	**95942169**
Crimping Pliers Insert (KOSTAL SLK 2,8 ELA)	Katalog08	1	**95942145**
	Katalog08	1	**95942151**
	Katalog08	1	**95942172**
Crimping Pliers Insert (KOSTAL SLK 2,8)	Katalog08	1	**95942144**
	Katalog08	1	**95942150**
	Katalog08	1	**95942170**
Crimping Pliers Insert (KOSTAL SLK 5,8 ELA)	Katalog08	1	**95942174**
	Katalog08	1	**95942183**
Crimping Pliers Insert (KOSTAL SLK 5,8)	Katalog08	1	**95942176**
	Katalog08	1	**95942184**

CrimPro 35

Crimping Pliers Set

Example:

The CrimPro 35 crimping pliers are suitable for a wide range of applications. The tool's precise guidance slot guarantees high-quality results. The pliers are made from high-tensile steel. Parts which are subject to particular stress are specially annealed. The inserts can be changed easily. Thanks to the patented crimping insert fixing, the insert pairs can be easily and accurately interchanged, and an additional guidance slot is provided on the tool. The Crim-Pro 30 series inserts are compatible but can only be used without a positioner. The Crim-

Pro 35 requires a minimum of effort to operate due to its optimal force transmission characteristics. The crimping pliers set, with its insulation and separation mechanism, serves to process common connectors using the three crimping inserts contained in the set.

■   insulated flat plugs and flat connector sleeves
■   non-insulated flat plugs and flat connector sleeves
■   non-insulated ring cable fittings in line with DIN 46 234

Cross section:	0,1 to 10 mm²	**Info:**	for isolated contacts
Plug type:	Blade Terminal		for unisolated contacts
	Blade Terminal Sleeve		
	Ring Connector		

	Profile	DU	Article no.
		1	**95942364**

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AirGuard

Programming-/Diagnostic Unit, TPMS

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The AirGuard is a programming and diagnostic device. It allows work to be carried out directly on the vehicle whilst offline. The vehicle database, with a coverage of 80-90%, is stored in the device itself. Updates are available free of charge from our website. The AirGuard is able to read out all sensor types found on the market. Then, it is able to automatically or manually duplicate the read data to the Herth+Buss wheel sensors. Programming a new sensor ID is also possible, as well as the wireless reprogramming of the sensor ID of activated Herth+Buss wheel sensors whilst fitted.

- Read-out of own/third-party sensors according to integrated database
- Programming of Herth+Buss wheel sensors according to integrated database
- free updates
- vehicle coverage of 80-90%
- vehicle data directly on the device

Screen Diagonal:	2,5 Inch	**Gauge:**	with LCD display
Terminal/Clamp:	with USB socket	**Info:**	with charger

	DU	Article no.
	1	**95990001**

Accessories	**see**	**DU**	
OBD Adapter, TPMS AirGuard	Katalog08	1	**95990003**
Toolbox AirGuard	Katalog08	1	**95990001010**
Valve Repair Set (TPMS) AirGuard	Katalog08	4	**70699433012**
Valve, TPMS AirGuard	Katalog13	1	**70699433013**
	Katalog13	1	**70699433014**
	Katalog13	1	**70699434013**
Wheel Sensor, TPMS AirGuard	Page 57	1	**70699434**
	Page 57	1	**70699443**

You Tube

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2

AirGuard

Wheel Sensor, TPMS

Herth+Buss wheel sensors can be used in all vehicles that have a tyre pressure monitoring system installed as standard. The AirGuard is required for programming and adjustment to the vehicle concerned. This process only takes between 5 and 15 seconds per sensor. An outstanding feature of the Herth+Buss wheel sensors: the original serial/ID number can be copied from the "old" sensor to the new one, or can be reassigned. In addition, the wheel sensors can be rewritten, used in aluminium and steel rims and wirelessly activated. The sensors can be ordered individually and are supplied with the complete valve in standard silver. A valve repair kit is also available, as are replacement valves in silver and black.

- one for all: optimum stockage with just one universal wheel sensor
- valves with adjustable angles
- for steel or aluminium rims
- certification up to 250 km/h
- battery service life: 3-7 years

to Tightening torque:	4 Nm	Weight:	46 g
Material:	Aluminium	only in connection with:	95990001
Pressure:	to 9 bar	Info:	with battery
			with pressure sensor
			with integrated air temperature sensor
			with seal
			with box nut
			with screw
			with valves

Frequency Range MHz	Information Transfer	DU	Article no.
433	Radio	1	**70699443**
Content		**QU**	
Valve, TPMS AirGuard		1	**70699433013**
Accessories	**see**	**DU**	
Programming-/Diagnostic Unit, TPMS AirGuard	Page 56	1	**95990001**
Valve Repair Set (TPMS) AirGuard	Katalog08	4	**70699433012**
Valve, TPMS AirGuard	Katalog13	1	**70699433014**

AirGuard

Wheel Sensor, TPMS

This snap-in wheel sensor can be installed in both light alloy rims and steel rims and can be activated wirelessly. Please note that the permissible maximum speed is restricted to 210 km/h. Supplied with a rubber valve.
Herth+Buss wheel sensors can be used in all vehicles that have a tyre pressure monitoring system installed as standard. The AirGuard is required for programming and adjustment to the vehicle concerned. This process only takes between 5 and 15 seconds per sensor. An outstanding feature of the Herth+Buss wheel sensors: the original serial/ID number can be copied from the "old" sensor to the new one, or can be reassigned. In addition, the wheel sensors can be rewritten, and can be used in aluminium and steel rims. The sensors can be ordered individually and are supplied with a complete valve. A replacement valve is also available.

- one for all: optimum stockage with just one universal wheel sensor
- for steel or aluminium rims
- certification up to 210 km/h
- battery service life: 3-7 years

Material:	Steel Elastomer	only in connection with:	95990001
Pressure:	to 9 bar	Info:	with battery
Weight:	36 g		with pressure sensor
			with integrated air temperature sensor
			with screw
			with valves

Frequency Range MHz	Colour	DU	Article no.
433	⬤	1	**70699434**
Content		**QU**	
Valve, TPMS AirGuard		1	**70699434013**
Accessories	**see**	**DU**	
Programming-/Diagnostic Unit, TPMS AirGuard	Page 56	1	**95990001**

2

2

AirGuard

Programming-/Diagnostic Unit, TPMS

The starter set already contains the program-ming /diagnostic device, TPMS AirGuard and four wheel sensors. This makes it the perfect TPMS starter set.
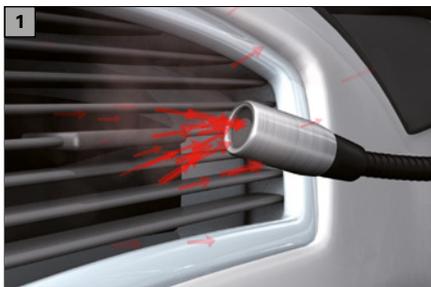
Info: with pressure sensor
                        with valves

Frequency Range MHz		DU	Article no.
433		1	**95990004**
Content		**QU**	
Programming-/Diagnostic Unit, TPMS AirGuard		1	**95990001**
Wheel Sensor, TPMS AirGuard		4	**70699443**
Accessories	**see**	**DU**	
OBD Adapter, TPMS AirGuard	Katalog08	1	**95990003**
Valve Repair Set (TPMS) AirGuard	Katalog08	4	**70699433012**
Valve, TPMS AirGuard	Katalog13	1	**70699433013**
	Katalog13	1	**70699433014**
	Katalog13	1	**70699434013**
Wheel Sensor, TPMS AirGuard	Page 57	1	**70699434**

AirGuard

Programming-/Diagnostic Unit, TPMS

The starter set already contains the program-ming /diagnostic device, TPMS AirGuard and the OBD-II module. This makes it the perfect TPMS starter set.

Info: with OBD connector

		DU	Article no.
		1	**95990005**
Content		**QU**	
OBD Adapter, TPMS AirGuard		1	**95990003**
Programming-/Diagnostic Unit, TPMS AirGuard		1	**95990001**
Accessories	**see**	**DU**	
Valve Repair Set (TPMS) AirGuard	Katalog08	4	**70699433012**
Valve, TPMS AirGuard	Katalog13	1	**70699433013**
	Katalog13	1	**70699433014**
	Katalog13	1	**70699434013**
Wheel Sensor, TPMS AirGuard	Page 57	1	**70699434**
	Page 57	1	**70699443**

SelectH2

Leakage Detector, air conditioning

Selective hydrogen gas detector for effective and environmentally friendly leak detection in air- conditioning and cooling systems using forming gas. The SelectH2 is fitted with a suction pump and two sensors. These operate like an artificial nose and suck in the test gas. With the SelectH2 you have a time-saving and environmentally sustainable alternative solution, which can be used for testing even large HGV and bus air-conditioning systems economically. The forming gas 95/5 (95% nitrogen, 5% hydrogen) is also used as inert gas in welding and is generally readily available from any gas retailer. The leak detection method using forming gas also complies fully with directive 2006/40/EU on emissions from air- conditioning systems in motor vehicles. The manufacturer recommends annual calibration to guarantee the high precision of the device in the long term.

- maximum hit rate even with the smallest leaks
- recognise defective heat exchangers even without removing the dashboard
- only reacts to hydrogen and therefore prevents misdiagnoses due to oil and petrol vapours
- automatic zero-point calibration in fresh air
- concentration-dependent signal
- automatic sensor check with error detection
- plastic case with cushioned lid and gas-free insert (important for storage)

Long gooseneck:	320 mm
Head Width:	14 mm
Housing Type:	Aluminium Housing
WxHxD:	52 x 178 x 35 mm

Workshop Equipment:	for measurement of the hydrogen concentration with integrated suction pump
Gauge:	with illuminated LCD display with LED display
Info:	with acoustic alarm

		DU	Article no.
		1	**95980002**
Content	**Diameter mm**	**Plug Type**	**QU**	

Content	Diameter mm	Plug Type	QU	
Power Supply SelectH2	3,5	Round Plug	1	**95980002001**
Accessories		**see**	**DU**	
Adapter, air conditioning service unit SelectH2		Katalog08	1	**95980027002**
		Katalog08	1	**95980027003**
		Katalog08	1	**95980027004**
		Katalog08	1	**95980027005**
		Katalog08	1	**95980027006**
Cylinder Pressure Regulator SelectH2		Katalog08	1	**95980028002**
Filler Hose Set, air conditioning service unit SelectH2		Katalog08	1	**95980027001**
Installation Aid Set, air conditioning service unit SelectH2		Page 61	1	**95980027**

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SelectH2 mini

Leakage Detector, air conditioning

Selective hydrogen gas detector for effective and environmentally friendly leak detection in air-conditioning and cooling systems using forming gas. The SelectH2 mini is equipped with two sensors (unique dual-sensor system). The device operates with diffusion technology and detects the hydrogen concentration in the gas cloud surrounding the leak. With the SelectH2 mini, you have a time-saving and environmentally sustainable alternative solution which can be used for testing even large HGV and bus air-conditioning systems economically. The forming gas 95/5 (95% nitrogen, 5% hydrogen) is also used as a shielding gas in welding and is generally readily available from any gas retailer. The leak detection method using forming gas also complies fully with directive 2006/40/EU on emissions from air-con-ditioning systems in motor vehicles. The manufacturer recommends annual calibration to guarantee the high precision of the device in the long term.

- high hit rate even with the smallest leaks
- recognise defective heat exchangers even without removing the dashboard
- only reacts to hydrogen and therefore prevents misdiagnoses due to oil and petrol vapours
- automatic zero-point calibration in fresh air
- concentration-dependent signal
- automatic sensor check with error detection
- integrated LED light
- plastic case with cushioned lid and gas-free insert (important for storage)

Long gooseneck:	320 mm
Housing Type:	Synthetic Material Housing
Required appliance battery:	Nickel Metal Hydrid Battery (NiMH)
WxHxD:	44 x 170 x 40 mm

Workshop Equipment:	for measurement of the hydrogen concentration
Gauge:	with illuminated LCD display with battery status indicator
Info:	with integrated work light with charger with acoustic alarm with case

Diameter mm			DU	Article no.
2,5			1	**95980019**

Content	Diameter mm	Plug Type	QU	
Power Supply	2,5	Round Plug	1	**95980995**
Accessories		see	DU	
Adapter, air conditioning service unit SelectH2		Katalog08	1	**95980027002**
		Katalog08	1	**95980027003**
		Katalog08	1	**95980027004**
		Katalog08	1	**95980027005**
		Katalog08	1	**95980027006**
Connector/Distributor Piece, compressed air system SelectH2		Katalog08	1	**95980027008**
Cylinder Pressure Regulator SelectH2		Katalog08	1	**95980028002**
Filler Hose Set, air conditioning service unit SelectH2		Katalog08	1	**95980027001**
Installation Aid Set, air conditioning service unit SelectH2		Page 61	1	**95980027**

SelectH2

Leak Search Set, Air Conditioning

Selective hydrogen gas detector for effective and environmentally friendly leak detection in air- conditioning and cooling systems using forming gas. The SelectH2 is fitted with a suction pump and two sensors. These operate like an artificial nose and suck in the test gas. With the SelectH2 you have a time-saving and environmentally sustainable alternative solution, which can be used for testing even large HGV and bus air-conditioning systems economically. The forming gas 95/5 (95% nitrogen, 5% hydrogen) is also used as inert gas in welding and is generally readily available from any gas retailer. The leak detection method using forming gas also complies fully with directive 2006/40/EU on emissions from air- conditioning systems in motor vehicles. The manufacturer recommends annual calibration to guarantee the high precision of the device in the long term.

- maximum hit rate even with the smallest leaks
- recognise defective heat exchangers even without removing the dashboard
- only reacts to hydrogen and therefore prevents misdiagnoses due to oil and petrol vapours
- automatic zero-point calibration in fresh air
- concentration-dependent signal
- automatic sensor check with error detection
- plastic case with cushioned lid and gas-free insert (important for storage)

		QU	DU	Article no.
	Set		1	**95980028**

Content	Diameter mm	Plug Type	QU	
Adapter, air conditioning service unit SelectH2			1	**95980027004**
			1	**95980027005**
Cylinder Pressure Regulator SelectH2			1	**95980028002**
Installation Aid Set, air conditioning service unit SelectH2			1	**95980027**
Leakage Detector, air conditioning SelectH2			1	**95980002**
Power Supply SelectH2	3,5	Round Plug	1	**95980002001**
Toolbox SelectH2			1	**95980028001**
Accessories		**see**	**DU**	
Adapter, air conditioning service unit SelectH2		Katalog08	1	**95980027006**

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SelectH2

Installation Aid Set, air conditioning service unit

Number of ports:	3	Outer thread:	1/4 Inch
Port Thread:	SAE		

Operating pressure bar	DU	Article no.
to 38	1	**95980027**

Content		QU	
Adapter, air conditioning service unit SelectH2		1	**95980027002**
		1	**95980027003**
Filler Hose Set, air conditioning service unit SelectH2		1	**95980027001**
Accessories	**see**	**DU**	
Adapter, air conditioning service unit SelectH2	Katalog08	1	**95980027004**
	Katalog08	1	**95980027005**
	Katalog08	1	**95980027006**
Connector/Distributor Piece, compressed air system SelectH2	Katalog08	1	**95980027008**
Cylinder Pressure Regulator SelectH2	Katalog08	1	**95980028002**

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AirClean

Spray Gun, air conditioning cleaner/-disinfectant

With AirClean, we are expanding our portfolio of A/C system maintenance products. In addition to leak detection, AirClean allows us to offer the option of disinfecting the vehicle and its A/C system without a great deal of effort and without harming the environment. AirClean is suitable for all vehicles, cars, vans, HGVs, mobile homes etc.

How much air-conditioning cleaner is required for each application and each type of vehicle? The consumption rates for air-conditioning cleaner are as follows:

- Small car: application time 5 minutes; consumption 70 ml
- Medium-sized car: application time 10 minutes, consumption 100 ml
- Van/SUV/minibus: application time 12 minutes; consumption 120 ml

Hose length:	2,5 m	**Info:**	with hose
Weight:	600 g		with handle

		DU	Article no.
	NEW	1	**95921003**
Accessories	**see**	**DU**	
Air Conditioning Cleaner/-Disinfecter AirClean	Page 62	1	**95923008**
for article number			
95923008			

AirClean

Air Conditioning Cleaner/-Disinfecter

AnoKath is a powerful oxidising agent made from water and sodium chloride. The agent is used to disinfect vehicle A/C systems or the vehicles themselves with the help of the special AirClean cold nebulisers. It reliably reduces germs, viruses and bacteria. The disinfection process using AnoKath is based on minerals.

Material:	Plastic

Operating temperature °C	Ambient temperature °C	Contents ml	DU	Article no.
20 to 25	5 to 25	1000	1	**95923008**
Accessories		**see**	**DU**	
Spray Gun, air conditioning cleaner/-disinfectant AirClean		Page 62	1	**95921003**

TesTip

Test Lead Set

TesTip is a set of different measuring cable sets, which enables simplified troubleshooting and secure signal pick-up through direct contact in electric vehicle components. The 94-part case set contains various adapters (measuring cable sets). The set also includes polarity tester which can be used to test Hall and photo-sensors and determine positive or earth-controlled injectors. Measuring potentiometers for checking temperature sensors, fuel sensors and throttle valve position sensors are included. The contained measuring resistors enable airbag circuits to be checked. All individual components can be adjusted.

				Quantity	DU	Article no.
				94	1	**95980778**
Content	**Diameter mm**	**Socket Width mm**	**Plug Type**	**QU**		
Multimeter Holding Wire TesTip		0,8	Blade Terminal	3	**95980778018**	
		0,8	Blade Terminal Sleeve	3	**95980778019**	
		1,2	Blade Terminal	4	**95980778020**	
		1,2	Blade Terminal Sleeve	4	**95980778021**	
		2,0	Blade Terminal	4	**95980778022**	
		2,0	Blade Terminal Sleeve	4	**95980778023**	
		2,5	Blade Terminal	3	**95980778024**	
		2,5	Blade Terminal Sleeve	3	**95980778025**	
		3,0	Blade Terminal	4	**95980778026**	
		3,0	Blade Terminal Sleeve	4	**95980778027**	
		5,0	Blade Terminal	3	**95980778028**	
		5,0	Blade Terminal Sleeve	3	**95980778029**	
		6,0	Blade Terminal	3	**95980778030**	
		6,0	Blade Terminal Sleeve	3	**95980778031**	
	1,5		Round Connector Sleeve	3	**95980778011**	
	1,5		Round Plug	3	**95980778010**	
	2		Round Connector Sleeve	3	**95980778013**	
	2		Round Plug	3	**95980778012**	
	3,5		Round Connector Sleeve	3	**95980778015**	
	3,5		Round Plug	3	**95980778014**	
	4		Round Connector Sleeve	3	**95980778017**	
	4		Round Plug	3	**95980778016**	
	4,5			4	**95980778008**	
Plug Distributor TesTip				2	**95980778007**	
Polarity Tester TesTip				2	**95980778002**	
Potentiometer TesTip				2	**95980778001**	
Probe, multimeter TesTip				2	**95980778005**	
				4	**95980778006**	
				2	**95980778009**	
SRS Plug, test resistor TesTip				2	**95980778003**	
Terminal, electric universal parts TesTip				2	**95980778004**	

Multimeter

The digital multimeter is an essential assistant in every workshop. It measures electrical values such as voltages and frequencies. The multimeter is also designed for temperature measurement in air- conditioning systems. It has automatic or manual measurement settings. It has a Data Hold function, i.e. various readings can be frozen during the measurement process and retrieved as and when required. You can also use the multimeter to detect the cam angle of the ignition timer shaft on ignition timer systems of all standard four-stroke multi-cylinder engines. The same app- lies for reading engine speeds. It has an clear, easy-to-read illuminated LCD display. The multimeter can withstand knocks and dropping because there are no moving parts to damage. It is therefore ideal for intensive workshop use.

- automatic or manual selection of measurement range
- automatic switch-off after 30 minutes idle
- values saved (data hold)
- cam angle and speed measurement
- delivery includes measurement cable, temperature sensor and battery

Duty cycle:	5 to 95 %
Registration Type:	CE approved
Required appliance battery:	9V Block
WxHxD:	83 x 165 x 47 mm

Weight:	370 g
Gauge:	with illuminated LCD display
Info:	with diode test function
	with continuity test function

Measurement range (AC) V	Measurement range (DC) V	Measurement range Ω	Measurement range Hz	Measurement range °C	DU	Article no.
4 40 250	0,4 4 40 250	400 Ohm to 40 MOhm	5 Hz to 200 kHz	-20 °C to +1000 °C	1	**95980775**

Content	Rated current A	Number of Poles terminal	Diameter mm	QU	
Fuse	0,5		5	1	**50295044**
Temperature Probe, multi-meter		2		1	**95980775001**
Accessories			**see**	**DU**	
Ampere Pliers Claw 400			Page 65	1	**95980785**
Test Lead Set TesTip			Page 63	1	**95980778**

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Claw 100

Ampere Pliers

Especially suited to precise measurements in the lower current area. This allows closed current measurements to be conducted without having to separate the circuit.
- automatic selection of measurement range

- automatic switch-off after 15 minutes idle
- values saved (data hold)
- delivery includes measuring cable and bag

Registration Type:	CE approved
	GS checked
Required appliance battery:	AAA (Micro) Nickel Metal Hydrid Battery (NiMH)
WxHxD:	71 x 226 x 38 mm

Weight:	200 g
Gauge:	with LCD display
Info:	with diode test function
	with continuity test function

Measurement range (AC) V	Measurement range (DC) V	Measurement range (AC) A	Measurement range (DC) A	Measurement range Ω	DU	Article no.
4 40 400 600	0,4 4 40 400 600	40 100	40 100	400 Ohm to 40 MOhm	1	**95980776**
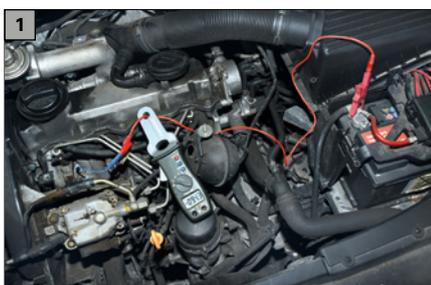
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Claw 400

Ampere Pliers

The clamp meter is suitable for measuring high flows up to 400 amperes.
- measurement of AC/DC current
- with zero point key
- bag included in delivery

Required appliance battery:	9V Block	additionally required parts:	Multimeter
WxHxD:	73 x 186 x 40 mm	Gauge:	with battery status indicator
Cable Length:	2,3 m		
Weight:	300 g	Info:	with banana plug

Measurement range (AC) A	Measurement range (DC) A	DU	Article no.
40 400	40 400	1	**95980785**
Accessories		**see**	**DU**	
Multimeter	Page 64	1	**95980775**

2

PlusMinus 3-28

Voltage Detector

The voltage detector PlusMinus 3-28 is compatible with electronic components like engine control units, sensors etc. An earth line or -terminal is not required.

Direct current:	3 to 28 V	Required appliance battery:	N (Lady)
Registration Type:	CE approved	Gauge:	with LED display
Surface:	Chromed	Info:	with acoustic alarm
Housing Type:	Metal Housing		

Length mm	Diameter mm	DU	Article no.
150	20	1	**90940110**

HeatGun

Hot Air Dryer

The HeatGun is an indispensable aid for many applications and is suitable for professionally working with shrink tubing and shrink connectors for example. The various attachments ensure greater precision and accurate control of the hot air to suit the application concerned. Further features include:

- infinitely variable temperature regulation
- six blower speed settings
- LCD temperature display
- stand for stationary working
- supplied complete with four different attachments

Input Voltage:	230 V	**Mains Cable Length:**	1,8 m
Rated Power:	2000 W	**Gauge:**	with LCD display

Temperature range °C	Connector	DU	Article no.
+50 to +600		1	**95920000**

Content		QU	
Attachment Set, hot air dryer HeatGun		1	**95920000001**

Burner

Gas Soldering Torch

Thanks to the adjustable gas supply and the attachments included in the scope of delivery, the burner is suitable for a wide variety of operations, such as for professional heating of shrink tubing or soldering in cable lugs.
- with piezo ignition
- refilling with commercially available

butane gas cartridges for cigarette lighters
- with stand
- inspection port for checking gas level
- including solder wire coil (lead-free), sponge, various attachments and a handy plastic box

Operating time to:	75 min.	**Fuel Tank Volume:**	30 ml

Solder Temperature °C	Flame temperature °C	Hot Air Temperature °C	DU	Article no.
450	1300	600	1	**95921001**

Content			QU	
Attachment Set, gas soldering torch			1	**95921001001**

2

Gas Soldering Torch

Operating time to:	60 min.	Fuel Tank Volume:	12 ml

Solder Temperature °C	Flame temperature °C	Hot Air Temperature °C		DU	Article no.
350	1300	550	NEW	1	**95921000**

Accessories			see	DU	
Attachment Set, gas soldering torch			Katalog08	1	**95921001001**

CrankPrint

Tester, battery

This testing unit has been developed for testing starter batteries and for testing the starter and charge system in motor vehicles. Thanks to the advanced conductivity measurement method, the cold-start performance and/or the general state (starting capability) of a starter battery can be determined precisely, reliably and safely without placing an unnecessary strain on it. Alongside vehicle workshops, users also include manufacturers of automobiles and batteries in addition to battery dealers. It is suitable for AGM, spiral, flat-plate, gel, EFB and conventional wet-cell batteries.

- With an integrated thermal printer
- Direct detection of defective battery cells
- Automatic temperature compensation
- Reverse polarity protection for the appliance and battery
- Also tests discharging batteries
- Saves the last 100 test results

Rated Voltage:	6 V
	12 V
Required appliance battery:	9V Block
WxHxD:	102 x 245 x 64 mm

Cable Length:	1,08 m
Workshop Equipment:	with integrated thermal printer with reverse polarity protection
Gauge:	with illuminated LCD display

Measurement range according to SAE CCA	Language Version	Test standard	DU	Article no.
100 to 2000	English German Spanish Italian French	SAE DIN EN JIS IEC GB MCA BCI	1	**95972081**

Content			Length m	QU	
Paper Roll, battery tester			6,4	1	**95972081001**

Blinker

Testing Unit, towbar socket

The indicator enables both the assignment of the trailer socket and the lighting function of the trailer to be checked by just one person. The tester replaces and simulates the towing vehicle or the trailer as desired. The user can have the lighting signals of the vehicle displayed on the remote control or use the remote control to activate all lights on the trailer.

- one-man operation via radio, saving a lot of time
- suitable for CAN Bus Check Control System
- Vehicle and trailer can be tested independently of each other
- automatic switch-off after 5 minutes idle

Rated Voltage:	12 V
Number of Poles:	7 terminal
	13 terminal
DIN / ISO:	1724
	11446
	72570
	72577
Registration Type:	CE approved

Battery:	AGM Battery
Trailer Hitch:	for trailer socket/trailer connector
Gauge:	with LED display
Info:	with remote control

Information Transfer	DU	Article no.
Radio	1	**95980571**

2

» REANIMATOR

For quick starters who want something extra!
Our Reanimator starting aid devices make starting the vehicle possible, even with a removed or defective battery. The battery in the unit allows the vehicle to be started from its own power.

	Reanimator Surge	Reanimator 1400	Reanimator Compact	Reanimator 2300
Start Aid Device	95980800	95980700	95980801	95980804
Rated Voltage	12 V	12 V	12 V	12 V
Peak Current	800 A	1400 A	1600 A	2300 A
Start Current	400 A	700 A	450 A	900 A
Gauge	with LED-display, load status display	with LED-display, battery status indicator, load status display	with LED-display, battery status indicator, load status display	with digitaler display, battery status indicator, load status display
Cable Length	330 mm	420 mm	450 mm	1590 mm
Cable Cross Section	13 mm^2	20 mm^2	16 mm^2	21 mm^2
Battery	-	LFP Battery (LiFePO4)	AGM-Battery	AGM-Battery
Battery Capacity	-	8 Ah	14 Ah	22 Ah
Weight	2.0 kg	3.5 kg	6.0 kg	10.8 kg
Combi Switch Function	On/Off switch	On/Off switch	-	On/Off switch
Terminal/Clamp	with USB socket	with USB socket	with USB socket	with USB socket
with cigarette lighter socket		■		■
with cigarette lighter plug	■	■		
reverse polarity protection	■	■		■
with integrated work light		■		
with capacitor	■			
Scope of application				
Suitable for				

» REANIMATOR

	Reanimator Hybrid	Reanimator 4600	Reanimator Trolley
Start Aid Device	95980802	95980805	95980803
Rated Voltage	12 V	12/24 V	12/24 V
Peak Current	3850 A	4600 A (12 V)/ 1800 A (24 V)	6200 A (12 V)/ 3100 A (24 V)
Start Current	1350 A	2300 A (12 V)/ 900 A (24 V)	2340 A (12 V)/ 1170 A (24 V)
Gauge	with LED-display, battery status indicator, load status display	with digitaler display, battery status indicator, load status display	with digital-display, battery status indicator, load status display
Cable Length	800 mm	1590 mm	1700 mm
Cable Cross Section	25 mm²	21 mm²	50 mm²
Battery	AGM-Battery	AGM-Battery	AGM-Battery
Battery Capacity	22 Ah	22 Ah	50 Ah
Weight	11.7 kg	18.0 kg	35.7 kg
Combi Switch Function	On/Off switch	On/Off switch	On/Off switch, selector switch
Terminal/Clamp	-	with USB socket	-
with cigarette lighter socket	■	■	■
with cigarette lighter plug			
reverse polarity protection	■	■	■
with integrated work light			
with capacitor	■		
Scope of application			
Suitable for			

Reanimator 1400

Start Aid Device

Rated Voltage:	12 V
Start Current:	700 A
Peak Current:	1400 A
Battery Capacity:	8 Ah
IP-Code:	IP 20
Registration Type:	CE approved
Battery:	LFP Battery (LiFePO4)
Terminal/Clamp:	with USB socket
Output Voltage USB:	5 V
Output current USB:	2100 mA
WxHxD:	Width [mm] x 240 x 250 mm
Cable Length:	420 mm
Cable Cross Section:	20 mm²
Weight:	3,5 kg
Workshop Equipment:	with reverse polarity protection
Combi Switch Function:	On/Off Switch
Gauge:	with LED display
	with load status display
Info:	with integrated work light
	with charger
	with cigarette lighter socket
	with cigarette lighter plug

	DU	Article no.
	1	**95980700**

Content	QU	
Battery Charger Reanimator 1400	1	**95980700001**

Accessories	see	DU	
Memory Saver Keeper 5	Page 72	1	**95980706**

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Reanimator Compact

Start Aid Device

A professional starting-aid battery for daily workshop use. This model is characterised by powerful performance despite its compact dimensions.

- Very compact and very light
- Powerful, maintenance-free and high-quality AGM battery
- With automatic high-frequency charger which is suitable for permanent connection

Rated Voltage:	12 V
Start Current:	450 A
Peak Current:	1600 A
Battery Capacity:	14 Ah
Battery:	AGM Battery
Terminal/Clamp:	with USB socket
WxHxD:	180 x 290 x 170 mm
Cable Length:	450 mm
Cable Cross Section:	16 mm²
Weight:	6,0 kg
Gauge:	with LED display
	with load status display
	with battery status indicator
Surge protection:	Yes

	DU	Article no.
	1	**95980801**

Reanimator 2300

Start Aid Device

Rated Voltage:	12 V	Cable Cross Section:	21 mm²
Start Current:	900 A	Weight:	9,8 kg
Peak Current:	2300 A	Gauge:	with digital display
Registration Type:	CE approved		with battery status
Battery:	AGM Battery		indicator
Terminal/Clamp:	with USB socket		with load status display
WxHxD:	340 x 410 x 140 mm	Protection:	300 A
Cable Length:	1,44 m	Reverse polarity protection	Yes
		Fuse Type:	Melting Fuse

	DU	Article no.
	1	**95980804**

Reanimator Hybrid

Start Aid Device

The stand-out feature of this model is its hybrid construction, which has two different energy stores. In addition to featuring a leak-proof, high-performance AGM battery, the Reanimator Hybrid is also equipped with supercaps (ultracapacitors). The combination of these energy stores enables a very high inrush current – particularly in the starting range. Furthermore, the capacitors absorb the main loads, thus conserving the battery. As such, they have a positive effect on the battery's service life.

Rated Voltage:	12 V	Weight:	11,7 kg
Start Current:	1350 A	Workshop Equipment:	with reverse polarity protection
Peak Current:	3850 A		
Battery Capacity:	22 Ah	Combi Switch Function:	On/Off Switch
Battery:	AGM Battery	Gauge:	with LED display
WxHxD:	330 x 390 x 220 mm		with load status display
Cable Length:	800 mm		with battery status indicator
Cable Cross Section:	25 mm²	Protection:	20 A
			500 A
		Surge protection:	Yes
		Fuse Type:	Standard Automatic Circuit Breaker Melting Fuse
		Info:	with cigarette lighter socket

	DU	Article no.
NEW	1	**95980802**

Reanimator 4600

Start Aid Device

Rated Voltage:	12 V	Cable Length:	1,46 m
	24 V	Cable Cross Section:	33 mm²
Start current:	1800 A	Weight:	18,9 kg
	900 A	Gauge:	with digital display
Peak current:	4600 A		with load status display
	2300 A		with battery status indicator
Registration Type:	CE approved		
Battery:	AGM Battery	Protection:	500 A
Terminal/Clamp:	with USB socket	Reverse polarity protection:	Yes
WxHxD:	340 x 410 x 200 mm	Fuse Type:	Melting Fuse

	DU	Article no.
	1	**95980805**

Reanimator Surge

Start Aid Device

In contrast to conventional assisted start devices, this device does not have an internal battery. Very powerful capacitors instead serve as power accumulators. These can store and then dispense the power required to start the engine in a very short time. The device functions entirely off-grid and can even be charged using the residual power from the discharged vehicle battery in the worst-case scenario.

- extremely fast charging
- compatible with all 12 V starting systems
- entirely maintenance-free
- microprocessor controller
- reliable spark suppression, no arcing
- suitable for use down to -40°C
- no loss of power in freezing conditions

Rated Voltage:	12 V
Start Current:	400 A
Peak Current:	800 A
Operating Mode:	Capacitor Operation
WxH:	190 x 63 x mm
Cable Length:	330 mm

Cable Cross Section:	13 mm²
Weight:	2 kg
Workshop Equipment:	with reverse polarity protection
Gauge:	with LED display
	with load status display
Info:	with hollow plug socket
	with cigarette lighter socket

Length mm	DU	Article no.
235	1	**95980800**

Content	QU	
Charger Cable, cigarette lighter Reanimator Surge	1	**95980800001**

Flash CS120

Battery Charger

The to date most powerful battery charger from the Flash series and one of the strongest battery chargers on the market. The Flash CS120 battery charger is the perfect solution for charging batteries and supplying energy to the onboard power system during diagnostic work and software updates. Any workshop with the CS120 battery charger can rely on being equipped for future energy requirements in the medium term. This charger features a regeneration mode and is also suitable for lithium batteries.

Rated Voltage:	12 V
Max. Charging Current:	120 A
IP-Code:	20
Registration Type:	CE approved
WxHxD:	350 x 450 x 150 mm
Mains Cable Length:	1,7 m

Charger Cable Length:	6 m
Cable Cross Section:	25 mm²
Weight:	8,8 kg
Regeneration mode:	Yes
Gauge:	with digital display
	with LED display

	DU	Article no.
	1	**95950005**

Keeper 5

Memory Saver

The Keeper 5 power save system supplies the vehicle with power while the battery is being replaced to ensure that various settings, such as radio codes, seat memory etc., are retained.

- simple connection via the OBD socket
- can be used together with any standard start booster

Rated Voltage:	12 V
Version:	OBD II
Cable Length:	2,3 m

Gauge:	with LED display
Info:	with cigarette lighter socket

			DU	Article no.
			1	**95980706**

Content	Rated current A	Diameter mm	QU	
Fuse	5	6,3	1	**50295150**
Accessories		see	DU	
Socket		Katalog04	1	**51306346**
for article number				
95980700				

Filler/Bleeder Unit, brake fluid

This tool is used to bleed brake or clutch hydraulics. For this purpose, the tool is connected to the hydraulic system via the compensating reservoir. The reservoir is pressurised by means of the integrated hand pump. On bleeding (on opening the bleeder nipple), the brake fluid is forced through the hydraulic pipes and replaced with an adequate amount of fresh fluid.

- suitable for mobile use as no power or compressed- air connection is required
- one-man operation
- standard compressed-air connection, thus permitting the use of existing adapters
- supplied together with collector

Hose length:	1 m
Hose diameter:	7,5 mm
Material:	Plastic

Workshop Equipment:	with hand pump
Valve Type:	With Pressure Relief Valve
Coupling type:	Quick Coupling

Operating pressure bar	Contents, storage container l		DU	Article no.
0 to 1,4	3	NEW	1	**J9300001**

Vernier Calliper, brake disc thickness

Material:	Aluminium

Measurement range mm	Measuring accuracy +/- mm	Length mm		DU	Article no.
0 to 50	0,25	395	NEW	1	**J9330000**

Adapter, container (brake fluid filling)

Thread Size:	M79x3	**Surface:**	Anodized
	M46,5x3		
Material:	Aluminium		

		QU	DU	Article no.
		Set	1	**J9300002**
Accessories		**see**	**DU**	
Filler/Bleeder Unit, brake fluid		Page 73	1	**J9300001**
for article number				
J9300001				

Magnetic Lift

The magnetic lifter is ideally suited for safely removing oil drain screws. After the hot oil drain screw has been loosened slightly, it can be removed effortlessly using the magnetic attraction of the tool. This makes burning and contamination a thing of the past.

| **Magnetic lift type:** | Flexible | **Info:** | for oil drain screw magnetic |

Length mm	Diameter mm	DU	Article no.
285	17,9	1	**95922001**

LED Shine Bump

Hand lamp

If the area to be lit is small and requires focused light, the LED Shine Bump portable lamp is the perfect choice. Two lamps - a head lamp and a main lamp - are integrated in the lamp body. This means that the lamp can be used flexibly depending on the space requirements and Illumination angle. The removable magnet is another useful feature. The magnet can be used to mount the lamp on a variety of different surfaces. It can be easily removed in situations where contact with magnet-sensitive areas, such as close to sensors, is to be avoided.

Input Voltage:	230 V	**Battery capacity:**	1000 mAh
Light Design:	LED	**Mounting Type:**	Magnet Mount
IP-Code:	IP 65	**Info:**	with charger
Battery:	Li-Ion Battery		with mini USB plug
	with load status display		

Length mm	Number of LEDs	Lumen lm	Burn Time Hrs.	Charging time Hrs.	DU	Article no.
185	1 2	45 90	3,5 6	1	1	**99910215**

LED Shine Flex Pro

Hand lamp

Rated Voltage:	12 V	**Battery:**	Li-Ion Battery
Light Design:	LED		with load status display
IP-Code:	IP 24	**Mounting Type:**	Magnet Mount
Material:	Plastic	**Info:**	with charger
			with hook
			with cigarette lighter socket

Length mm	Number of LEDs	Lumen lm	Burn Time Hrs.	Charging time Hrs.	DU	Article no.
230	5 21	50 150	4,5	3,5	1	**99910212**

Shine 3,5W

Hand lamp

Voltage:	230 V	**Cable ID:**	H05RN-F 2x0,75mm²
Rated Power:	3,5 W	**Mains Cable Length:**	5 m
Light Design:	LED	**Mounting Type:**	Glued
IP-Code:	IP 20	**Info:**	with handle
Plug type:	Euro flat plug		with hook

Length mm	Temperature range °C	Number of LEDs	Lumen lm	Connector	DU	Article no.
420	0 to +40	16	400		1	**99910245**

Electrics

3

Shocker 80

Marten Repellent

IP-Code:				IP 44	**Info:**		with LED
WxHxD:				70 x 45 x 50 mm			

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length mm	DU	Article no.
80	12	-40 to +82	20	300 600	1	**59415053**

Content					Rated Voltage V	QU	
Marten Repellent Shocker 80					12	10	**59415051**

Accessories						see	DU	
Screw						Page 26	5	**52285560**

Shocker 80

Marten Repellent

In order to achieve better protection against martens, a marten repellent should be installed on every entrance hole in the engine compartment. The installation location should be as deep as possible. The device operates in a 12-second cycle (see LED). The device should be installed so that the picture of the marten can be seen through the entrance hole. Should there be multiple holes, a device should be installed on every side of the engine. The engine must be washed prior to installation or after each time a marten is present, in order to remove scent traces. With a power requirement of approx. 20 mA, the battery will not be discharged. The signal is inaudible to the human ear.

IP-Code:				IP 44	**Info:**		with LED
WxHxD:				70 x 45 x 50 mm			

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length mm	DU	Article no.
80	12	-40 to +82	40	300 600	1	**59415051**

Accessories				Voltage V	see	DU	
Fuse				to 250	Katalog04	10	**50295050**
Screw					Page 26	5	**52285560**

Shocker 110

Marten Repellent

More power – More protection – More safety A sound reflection system is used for the first time in a marten repellent. This makes it possible to achieve 360° emission. A convex cone is arranged above a piezoelectric loudspeaker with a NAWI membrane. The cone has the same shape and diameter as the membrane. This design generates a high noise pressure and a 360° emission. The system operates in approx. 12-second cycles (on/off). The engine must be washed before installing the device.

WxHxD:				70 x 92 x 50 mm	**Info:**		with LED

Sound Level dB(A)	Rated Voltage V	Temperature range °C	Charging Rate mA	Cable Length m	DU	Article no.
110	12	-40 to +80	110	1,00	1	**59415052**

Accessories					see	DU	
Screw					Page 26	5	**52285560**

3

Control Unit, lights

Dummy resistance load for adapting LED trailer lights on vehicles with lamp monitoring. The failure of one LED unit is detected and the load is switched off.
■ simple connection thanks to pre-installed cable with plug and socket
■ LED failure is detected
■ Short circuit is detected

■ Controls all branches with shunt resistors
■ LED-Adapt must be mounted on a metallic surface
■ It is not permissible to connect bulbs to the outlet
■ Under certain circumstances, the short circuit protection may only shut off after several minutes

IP-Code:	IP 68	**housing material:**	Aluminium
Information Transfer:	Suitable for CAN bus systems	**WxHxD:**	232 x 49,5 x 102 mm
Light Function:	for taillight (LED)	**Number of Poles:**	7 terminal
	for brake light (LED)		
	for rear fog light (LED)		
	for reverse light (LED)		
	for indicator (LED)		
DIN / ISO:	1724 N-Typ		

Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	**76121254**

Control Unit, lights

Dummy resistance load for adapting LED trailer lights on vehicles with lamp monitoring. The failure of one LED unit is detected and the load is switched off.
■ simple connection thanks to pre-installed cable with plug and socket
■ LED failure is detected
■ Short circuit is detected

■ Controls all branches with shunt resistors
■ LED-Adapt must be mounted on a metallic surface
■ It is not permissible to connect bulbs to the outlet
■ Under certain circumstances, the short circuit protection may only shut off after several minutes

IP-Code:	IP 68	**housing material:**	Aluminium
Information Transfer:	Suitable for CAN bus systems	**WxHxD:**	232 x 49,5 x 102 mm
Light Function:	for taillight (LED)	**Number of Poles:**	13 terminal
	for brake light (LED)		
	for rear fog light (LED)		
	for reverse light (LED)		
	for indicator (LED)		
DIN / ISO:	11446		

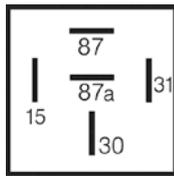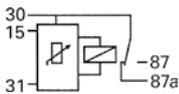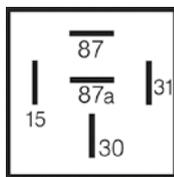| Rated Voltage V	Temperature range °C	Cable Length m	Connector	DU	Article no.
12	-40 to +55	0,5 2,5		1	**76121255**

3

Time Relay

With adjustable time relays with a switch-on delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at termi-nal 30. Voltage at terminal 15 means that the relay is switched on with a delay after the set time. If the voltage is removed from terminal 15, the relay switches off immediately.

Rated current:	10 A	**WxHxD:**	30 x 40 x 30 mm
Terminal/Clamp:	Supply terminal 15	**Number of Poles:**	5 terminal
IP-Code:	IP 54	**Info:**	Switch-on delay

Plug type	Rated Voltage V	Port Type	adjustment range sec	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1 to 30	1	**75614203**
			30 to 900	1	**75614069**
Accessories			**see**	**DU**	
Relay Socket			Katalog04	5	**50290266**

Time Relay

With adjustable time relays with a switch-on delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at termi-nal 30. Voltage at terminal 15 means that the relay is switched on with a delay after the set time. If the voltage is removed from terminal 15, the relay switches off immediately.

Rated current:	10 A	**WxHxD:**	30 x 40 x 30 mm
Terminal/Clamp:	Supply terminal 30	**Number of Poles:**	5 terminal
IP-Code:	IP 54	**Info:**	Switch-on delay

Plug type	Rated Voltage V	Port Type	adjustment range sec	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1 to 30	1	**75614205**
			30 to 900	1	**75614003**
Accessories			**see**	**DU**	
Relay Socket			Katalog04	5	**50290266**

3

Time Relay

With adjustable time relays with a switch-off delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on immediately. If the voltage is removed from terminal 15, the relay is switched off after the set time has elapsed. In a time relay with diodes, the relay does not consume any closed current after being switched off due to the diode circuitry. Applications: delayed switch-off for fans and lighting

Rated current:	10 A	**Number of Poles:**		5 terminal
IP-Code:	IP 54	**Info:**		Switch-off delay
WxHxD:	30 x 40 x 30 mm			

Plug type	Rated Voltage V	Port Type	adjustment range sec	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	1 to 30	1	**75614194**
			30 to 900	1	**75614001**
Accessories			**see**	**DU**	
Relay Socket			Katalog04	5	**50290266**

Time Relay

With adjustable time relays with a switch-off delay, the precise delay time can be set within the selected time range using a potentiometer. There are five time ranges to choose from as standard. Function: operating voltage at terminal 30. Voltage at terminal 15 means that the relay is switched on immediately. If the voltage is removed from terminal 15, the relay is switched off after the set time has elapsed. In a time relay with diodes, the relay does not consume any closed current after being switched off due to the diode circuitry. Applications: delayed switch-off for fans and lighting

Rated current:	10 A	**WxHxD:**		30 x 40 x 30 mm
Terminal/Clamp:	Supply terminal 30	**Number of Poles:**		5 terminal
IP-Code:	IP 54	**Info:**		Switch-off delay

Plug type	Rated Voltage V	Port Type	adjustment range sec	DU	Article no.
Blade Terminal	12	5 x 6,3 mm	0 to 30	1	**75614207**
			30 to 900	1	**75614005**
Accessories			**see**	**DU**	
Relay Socket			Katalog04	5	**50290266**

3

Lighting

4

Bulb plug

Bulb Type: HB4
Info: with cable

Number of Poles terminal	Socket Version	Cable Length mm	DU	Article no.
2	P22d PX22d	175	1	**50390439**

Accessories		Voltage V	see	DU	
Bulb HB4		12	Katalog06	1	**89901129**

Bulb plug

Bulb Type: HB3
H12
Info: with cable

Number of Poles terminal	Socket Version	Cable Length mm	DU	Article no.
2	P20d PZ20d PY20d	175	1	**50390440**

Accessories	Voltage V	see	DU	
Bulb H12	12	Katalog06	1	**89901300**
Bulb HB3		Katalog06	1	**89901128**

Bulb plug

Bulb Type: H8
H11
H27W/2
H16
H27W/1
Info: with cable

Number of Poles terminal	Socket Version	Cable Length mm	DU	Article no.
2	PGJ19-1 PGJ19-2 PGJ13 PG13 PGJ19-3	175	1	**50390441**

Accessories	Voltage V	see	DU	
Bulb H11	12	Katalog06	1	**89901110**
Bulb H27W/2		Katalog06	1	**89901302**
Bulb H8		Katalog06	1	**89901168**

RepCon

Cable Repair Set, high-beam headlamp bulb
Cable Repair Set, main-beam headlamp bulb
Cable Repair Set, fog light bulb

Bulb Type: H9 **Info:** with socket housing
with gaskets/seals
with pipe

Number of Poles terminal	Cable Length mm	Connector	DU	Article no.
2	500		1	**51277310**

HERTH+BUSS

D1S
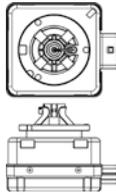
Bulb

Xenon

Socket Version:		PK32d-2	**Bulb Type:**	D1S (gas discharge tube)
Voltage **V**	**Rated Power** **W**		**DU**	**Article no.**
85	35		1	**89901320**

D1R

Bulb

Xenon
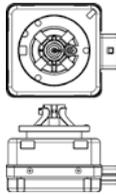
Socket Version:		PK32d-3	**Bulb Type:**	D1R (gas discharge tube)
Voltage **V**	**Rated Power** **W**		**DU**	**Article no.**
85	35		1	**89901321**

D2S

Bulb

Xenon
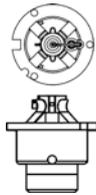
Socket Version:		P32d-2	**Bulb Type:**	D2S (gas discharge tube)
Voltage **V**	**Rated Power** **W**		**DU**	**Article no.**
85	35		1	**89901220**

D2R

Bulb

Xenon
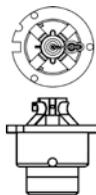
Socket Version:		P32d-3	**Bulb Type:**	D2R (gas discharge tube)
Voltage **V**	**Rated Power** **W**		**DU**	**Article no.**
85	35		1	**89901221**

4

D3S
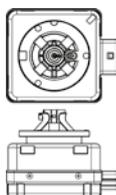
Bulb

Xenon

Socket Version:		PK32d-5	**Bulb Type:**	D3S (Gas Discharge Lamp)

Voltage V	Rated Power W		DU	Article no.
42	35		1	**89901313**

D3R

Bulb

Xenon
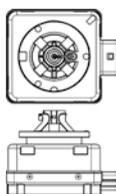
Socket Version:		PK32d-6	**Bulb Type:**	D3R Gas Discharge Lamp

Voltage V	Rated Power W		DU	Article no.
42	35	NEW	1	**89901312**

D4S

Bulb

Xenon
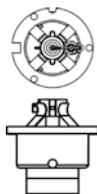
Socket Version:		P32d-5	**Bulb Type:**	D4S (Gas Discharge Lamp)

Voltage V	Rated Power W		DU	Article no.
42	35		1	**89901314**

D4R

Bulb

Xenon
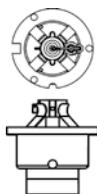
Socket Version:		P32d-6	**Bulb Type:**	D4R Gas Discharge Lamp
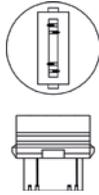
Voltage V	Rated Power W		DU	Article no.
42	35	NEW	1	**89901319**

4

P27/7W

Bulb

| Socket Version: | WX2,5x16q | Diameter: | 26,5 mm |
| Bulb Type: | PY27/7W | Height: | 53 mm |

Voltage V	Rated Power W	Bulb	DU	Article no.
12	27/7	🟠	10	**89901324**

H15

Bulb
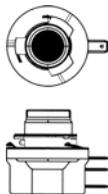
| Socket Version: | PGJ23t-1 | Bulb Type: | H15 |

Voltage V	Rated Power W	DU	Article no.
12	55/15	1	**89901335**

P13W

Bulb
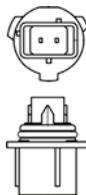
| Socket Version: | PG18,5d-1 | Bulb Type: | P13W |

Voltage V	Rated Power W	DU	Article no.
12	13	1	**89901332**

PS19W

Bulb
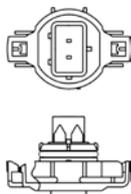
| Socket Version: | PG20-1 | Bulb Type: | PS19W |

Voltage V	Rated Power W	DU	Article no.
12	19	1	**89901333**

PSX24W

Bulb
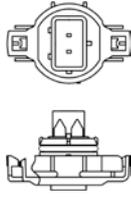
Socket Version:	PG20-7	Bulb Type:		PSX24W

Voltage V	Rated Power W	Light Function	DU	Article no.
12	24	for fog lamp	1	**89901334**

HY21W

Bulb

Halogen
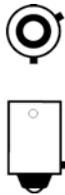
Socket Version:	BAW9s	Bulb Type:		HY21W

Voltage V	Rated Power W	Bulb	DU	Article no.
12	21	🟠	10	**89901327**

RY10W

Bulb
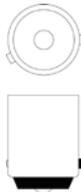
Socket Version:	BAU15s	Bulb Type:		RY10W

Voltage V	Rated Power W	Bulb	DU	Article no.
12	10	🟠	10	**89901325**

P27W

Bulb
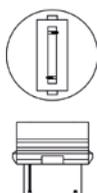
Socket Version:	W2,5x16d	Diameter:	26,5 mm
Bulb Type:	P27W	Height:	53 mm

Voltage V	Rated Power W	DU	Article no.
12	27	10	**89901310**

P27/7W

Bulb

| Socket Version: | W2,5x16q | Diameter: | 26,5 mm |
| Bulb Type: | P27/7W | Height: | 53 mm |

Voltage V	Rated Power W		DU	Article no.
12	27/7		10	**89901311**

Assortment, plastic bulb

Material: Plastic

Thanks to a range of plastic socket lamps, the most popular types are always available. This saves you valuable time during repair works.

Voltage V		Colour	Quanti-ty	DU	Article no.
12		⚫⚪	60	1	**89900206**

Content	Voltage V	Bulb Type	Socket Version	QU	
Plastic bulb	12	Socket Bulb	B8,3d	5	**89901240**
	12	Socket Bulb	B8,4d	5	**89901284**
	12	Socket Bulb	B8,5d	5	**89901242**
	12	Socket Bulb	B8,5d	5	**89901244**
	12	Socket Bulb	B8,5d	5	**89901275**
	12	Socket Bulb	BX8,4d	5	**89901232**
	12	Socket Bulb	BX8,4d	5	**89901235**
	12	Socket Bulb	BX8,4d	5	**89901272**
	12	Socket Bulb	BX8,4d	5	**89901273**
	12	Socket Bulb	BX8,4d	5	**89901286**
	12	Socket Bulb	BX8,5d	5	**89901270**
	12	Socket Bulb	BX8,5d	5	**89901277**

Assortment, plastic bulb

Material: Plastic

Thanks to a range of plastic socket lamps, the most popular types are always available. This saves you valuable time during repair works.

Voltage V		Colour	Quanti-ty	DU	Article no.
12		⚫⚪	90	1	**89900207**

Content	Voltage V	Bulb Type	Socket Version	QU	
Plastic bulb	12	Socket Bulb	B8,3d	5	**89901240**
	12	Socket Bulb	B8,3d	5	**89901282**
	12	Socket Bulb	B8,4d	5	**89901284**
	12	Socket Bulb	B8,5d	5	**89901242**
	12	Socket Bulb	B8,5d	5	**89901244**
	12	Socket Bulb	B8,5d	5	**89901275**
	12	Socket Bulb	B8,7d	5	**89901280**
	12	Socket Bulb	BX8,4d	5	**89901232**
	12	Socket Bulb	BX8,4d	5	**89901235**
	12	Socket Bulb	BX8,4d	5	**89901272**
	12	Socket Bulb	BX8,4d	5	**89901273**
	12	Socket Bulb	BX8,5d	5	**89901270**
	12	Socket Bulb	BX8,5d	5	**89901276**
	12	Socket Bulb	BX8,5d	5	**89901277**
	12	Socket Bulb	BX8,5d	5	**89901283**
	12	Socket Bulb	MFHZ BG8-5,5d	5	**89901279**
	12	Socket Bulb	MFJF BG8,5-5,5d	5	**89901278**

4

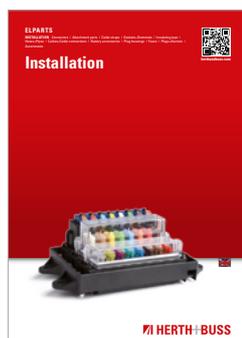# ELPARTS

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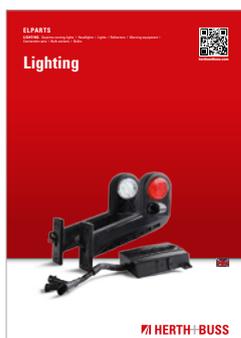- can be viewed on mobile devices

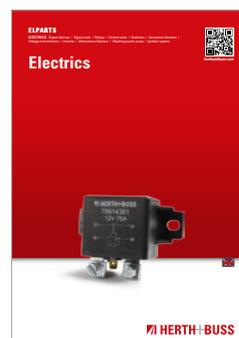**herthundbuss.com/en/catalogues**

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