



## KL-0080-1 K / -10 K / -104 K Wiring Harness Repair Kit



**Product information** EN  
 ⚠ Read and understand before use!



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0080-1K\_EN220709.indd

## 1. PRODUCT DESCRIPTION

### 2.1 KL-0080-1 K - Wiring harness repair kit with contact assortment

Universally suitable for standard wire/terminal connections on passenger cars, commercial vehicles, vans, buses, construction machinery, agricultural machinery, trailers, and semi-trailers.

Especially for wire/terminal connections with and without single conductor seal (ELA), such as MCP-2.8, JPT, MQS, DTM/DT-twisted, SuperSeal-1.5, as well as for conventional crimp connections such as wire lugs, flat spade wire terminals, female flat spade wire terminals, butt connectors, etc.

**UNLOCKING, STRIPPING, and CRIMPING**, all stored within easy reach in a clear case system, designed for fast, organised, and efficient repairs in the daily workshop life.

Defective, oxidised, or provisionally repaired wire/terminal connections can lead to serious system failures on the vehicle. For this purpose, the repair kit for professionals in particular offers a comprehensive and robust assortment for the quick and professional repair of almost all common wire/terminal connections on the vehicle.

Due to the unique and compact basic tool/changeable insert system, this can also be expanded as required in the future. The scope of delivery already includes a generous assortment of the most common contacts and seals.

① ELA = single conductor seal

### 2.2 Safety instructions and regulations

- ✔ **Before using** the special tool, read and understand **all** safety instructions and **follow** them for **safe use!**
- ✔ Use the special tool **as intended** and **always** carry out maintenance and repairs in compliance with the regulations on occupational safety and accident prevention as well as the vehicle manufacturer's instructions!
- ✔ All work with the special tool must only be carried out on de-energised lines or wires in the low-voltage range on passenger cars, commercial vehicles, vans, buses, construction machinery, agricultural machinery, trailers, and semi-trailers!
- ✔ **Before each use**, check the special tool **carefully** for damage, loose parts, or unauthorised modifications. **Never** use it if you notice any such deficiencies!
- ✔ Always wear your personal protective equipment (*for example safety goggles, protective gloves, safety shoes*) when working!

### 2.3 Specifications

Unlocking inserts:.....	7 pcs	MQS:.....	0.08 - 0.75mm <sup>2</sup> diameter
Stripping inserts: .....	2 pairs	DTM/DT twisted:.....	0.5 - 2.1mm <sup>2</sup> diameter
Crimping inserts: .....	11 pcs	SuperSeal-1.5:.....	0.35 - 2.5mm <sup>2</sup> diameter
MCP-2.8:.....	0.2 - 1.0mm <sup>2</sup> diameter	Pinch connections:.....	0.35 - 6mm <sup>2</sup> diameter / AWG 10 - 22
JPT:.....	0.2 - 2.5mm <sup>2</sup> diameter	Stripping:.....	0.03 to 16mm <sup>2</sup> diameter



EN



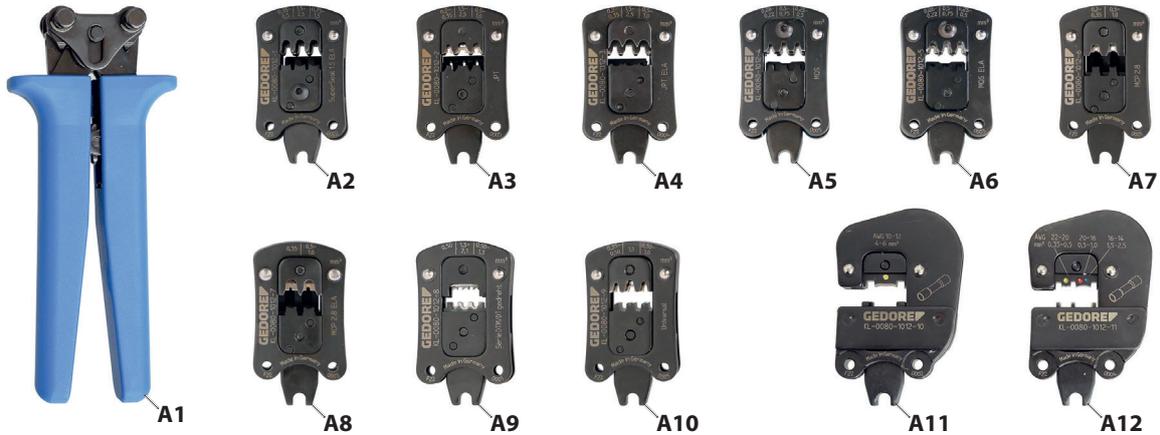
## 2.4 Scope of delivery / single part overview

Item	Part no.	Description	Qty.
<b>A</b>	KL-0080-101	Crimping tool	1
A1	KL-0080-1011	Handle	1
A2	KL-0080-1012-1	Crimping attachment SuperSeal 1.5	1
A3	KL-0080-1012-2	Crimping attachment JPT	1
A4	KL-0080-1012-3	Crimping attachment JPT ELA	1
A5	KL-0080-1012-4	Crimping attachment MQS	1
A6	KL-0080-1012-5	Crimping attachment MQS ELA	1
A7	KL-0080-1012-6	Crimping attachment MCP 2.8	1
A8	KL-0080-1012-7	Crimping attachment MCP 2.8 ELA	1
A9	KL-0080-1012-8	Crimping attachment DTM/DT, twisted	1
A10	KL-0080-1012-9	Universal crimping attachment	1
A11	KL-0080-1012-10	Crimping attachment 4 - 6mm <sup>2</sup>	1
A12	KL-0080-1012-11	Crimping attachment 0.35 - 2.5mm <sup>2</sup>	1
<b>B</b>	KL-0080-102	Wire stripper	1
B1	KL-0080-1021	Wire stripper, self-adjusting	1
B2	KL-0080-1022	Supplementary blade set, V-shaped	1
<b>C</b>	KL-0080-103	Ejection tool	1
C1	KL-0080-1031	Handle	1
C2	KL-0080-1032-1	Superseal ejector blade + female flat spade wire terminals, etc.	1
C3	KL-0080-1032-2	Superseal ejector blade + Deutsch DTM/DT (secondary lock)	1
C4	KL-0080-1032-3	Ejector blade MCP2.8 + JPT + SPT + female flat spade wire terminals 2.8	1
C5	KL-0080-1032-4	Ejector blade MQS / FC1+3 / CPC	1
C6	KL-0080-1032-5	Ejector blade, half-round Deutsch DTM series (Size 20)	1
C7	KL-0080-1032-6	Ejector blade 4mm diameter, Deutsch DT series	1
C8	KL-0080-1032-7	Ejector blade 5mm diameter, Deutsch DT series	1
-	KL-0080-104 K	Contacts assortment case	1
-	KL-0080-1041	Socket contact MCP 2.8 ELA 0.35mm <sup>2</sup>	25
-	KL-0080-1042	Socket contact MCP 2.8 ELA 0.5-1.0mm <sup>2</sup>	25
-	KL-0080-1043	Sealing MCP 2.8 ELA blue / 5.2mm / 0.35-1.0mm <sup>2</sup>	25
-	KL-0080-1044	Socket contact MCP 2.8 0.2-0.35mm <sup>2</sup>	25
-	KL-0080-1045	Socket contact MCP 2.8 0.5-1.0mm <sup>2</sup>	25
-	KL-0080-1046	Socket contact JPT ELA 0.2-0.35mm <sup>2</sup>	25
-	KL-0080-1047	Socket contact JPT ELA 1.5-2.5mm <sup>2</sup>	25
-	KL-0080-1048	Socket contact JPT ELA 0.5-1.0mm <sup>2</sup>	25
-	KL-0080-1049	Sealing JPT ELA white / 5.2 mm / 1.5-2.5mm <sup>2</sup>	25
-	KL-0080-1050	Socket contact JPT 0.2-0.35mm <sup>2</sup>	25
-	KL-0080-1051	Socket contact JPT 1.5-2.5mm <sup>2</sup>	25
-	KL-0080-1052	Socket contact JPT 0.5-1.0mm <sup>2</sup>	25

Item	Part no.	Description	Qty.
-	KL-0080-1053	Socket contact MQS ELA 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1054	Pin contact MQS ELA 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1055	Socket contact MQS ELA 0.25-0.5mm <sup>2</sup>	25
-	KL-0080-1056	Pin contact MQS ELA 0.25-0.5mm <sup>2</sup>	25
-	KL-0080-1057	Sealing MQS / green / 3.45 mm / 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1058	Sealing MQS / black / 4 mm / 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1059	Sealing MQS / yellow / 3.45 mm / 0.2-0.35mm <sup>2</sup>	25
-	KL-0080-1060	Sealing MQS / green / 4 mm / 0.2-0.35mm <sup>2</sup>	25
-	KL-0080-1061	Pin contact MQS 0.08-0.22mm <sup>2</sup>	25
-	KL-0080-1062	Socket contact MQS 0.08-0.22mm <sup>2</sup>	25
-	KL-0080-1063	Socket contact MQS 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1064	Pin contact MQS 0.5-0.75mm <sup>2</sup>	25
-	KL-0080-1065	Socket contact MQS 0.25-0.5mm <sup>2</sup>	25
-	KL-0080-1066	Pin contact MQS 0.25-0.5mm <sup>2</sup>	25
-	KL-0080-1067	Socket contact SuperSeal 1.5 ELA 0.35-0.5mm <sup>2</sup>	25
-	KL-0080-1068	Pin contact 1.5 ELA 0.35-0.5mm <sup>2</sup>	25
-	KL-0080-1069	Socket contact SuperSeal 1.5 ELA 1.5-2.5mm <sup>2</sup>	25
-	KL-0080-1070	Pin contact 1.5 ELA 1.5-2.5mm <sup>2</sup>	25
-	KL-0080-1071	Socket contact SuperSeal 1.5 ELA 0.75-1.5mm <sup>2</sup>	25
-	KL-0080-1072	Pin contact 1.5 ELA 0.75-1.5mm <sup>2</sup>	25
-	KL-0080-1073	Sealing SuperSeal 1.5 ELA green / 5.5mm / 0.35-0.5mm <sup>2</sup>	25
-	KL-0080-1074	Sealing SuperSeal 1.5 ELA red / 5.5mm / 2.0-2.5mm <sup>2</sup>	25
-	KL-0080-1075	Sealing SuperSeal 1.5 ELA yellow / 5.5mm / 0.75-1.5mm <sup>2</sup>	25
-	KL-0080-1076	Pin contact DTM 0.5mm <sup>2</sup>	25
-	KL-0080-1077	Socket contact DTM 0.5mm <sup>2</sup>	25
-	KL-0080-1078	Pin contact DT 1.3-2.1mm <sup>2</sup>	25
-	KL-0080-1079	Socket contact DT 1.3-2.1mm <sup>2</sup>	25
-	KL-0080-1080	Pin contact DT 0.5-1.3mm <sup>2</sup>	25
-	KL-0080-1081	Socket contact DT 0.5-1.3mm <sup>2</sup>	25
D	KL-0080-1082	Plastic tweezers	1
-	KL-0080-1090-3	Foam insert	1
-	KL-0080-1090-4	Lid insert hard foam	1
-	1101 L	GEDORE i-BOXX 72 small parts case	1
-	KL-0080-1090	Contact assortment in case	1
-	KL-0080-1090-1	Foam insert	1
-	KL-0080-1090-2	Foam insert	1
-	KL-0080-1090-5	GEDORE i-BOXX Rack	1
-	1100 L	GEDORE L-BOXX 136	1

**Scope of supply / Single part overview**

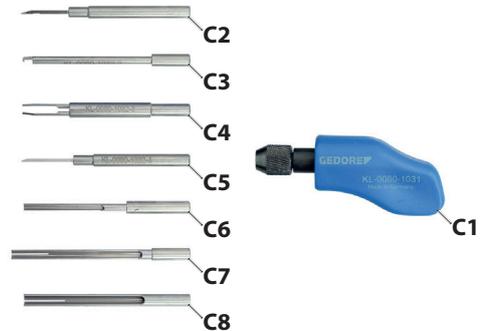
**KL-0080-101 - Crimping tool**



**KL-0080-102 - Wire stripper**



**KL-0080-103 - Ejector tool**



**KL-0080-104 K Contact assortment case**



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## 2.5 Contact range overview

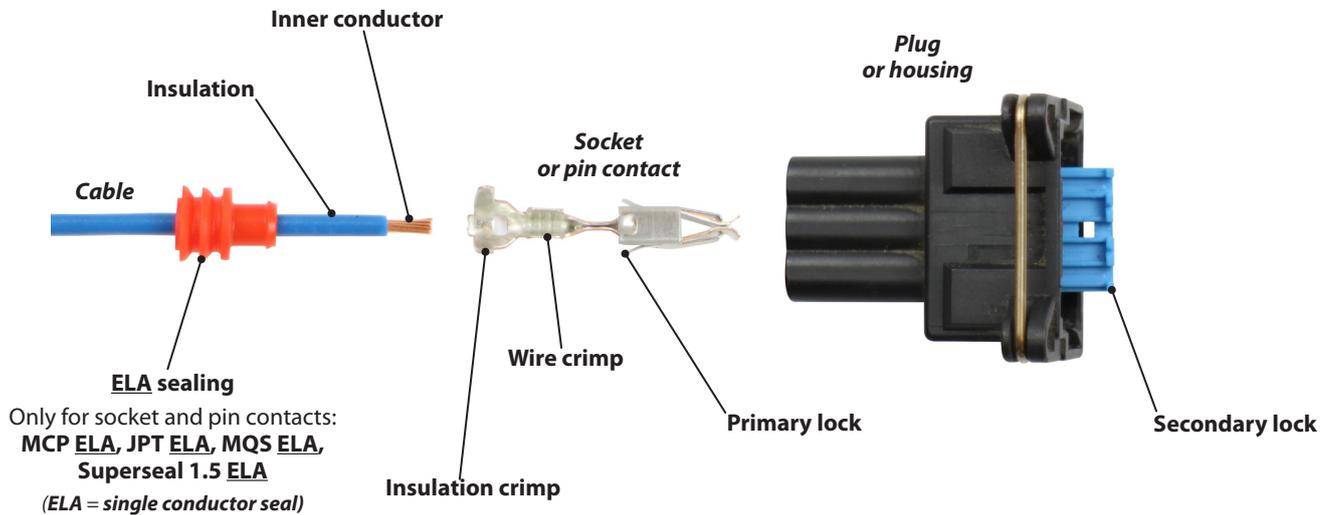
This overview lists basic designations and information about the contact assortment case - **KL-0080-104 K**

 JPT ELA 0.5 - 1.0 mm <sup>2</sup> KL-0080-1048	 JPT ELA 5.2 mm / 1.5 - 2.5 mm <sup>2</sup> KL-0080-1049	 MQS 0.5 - 0.75 mm <sup>2</sup> KL-0080-1064	 MQS 0.5 - 0.5 mm <sup>2</sup> KL-0080-1065		
 JPT ELA 1.5 - 2.5 mm <sup>2</sup> KL-0080-1047	 JPT 0.2 - 0.35 mm <sup>2</sup> KL-0080-1050	 MQS 0.5 - 0.75 mm <sup>2</sup> KL-0080-1063	 MQS 0.25 - 0.5 mm <sup>2</sup> KL-0080-1066		
 JPT ELA 0.2 - 0.35 mm <sup>2</sup> KL-0080-1046	 JPT 1.5 - 2.5 mm <sup>2</sup> KL-0080-1051	 MQS 0.08 - 0.22 mm <sup>2</sup> KL-0080-1062	 SuperSeal 1.5 ELA 0.35 - 0.5 mm <sup>2</sup> KL-0080-1067		
 MCP 2.8 0.5 - 1.0 mm <sup>2</sup> KL-0080-1045	 JPT 0.5 - 1.0 mm <sup>2</sup> KL-0080-1052	 MQS 0.08 - 0.22 mm <sup>2</sup> KL-0080-1061	 SuperSeal 1.5 ELA 0.35 - 0.5 mm <sup>2</sup> KL-0080-1068	 DTM 0.5 mm <sup>2</sup> KL-0080-1077	
 MCP 2.8 0.2 - 0.35 mm <sup>2</sup> KL-0080-1044	 MQS ELA 0.5 - 0.75 mm <sup>2</sup> KL-0080-1053	 MQS ELA 4 mm / 0.2 - 0.35 mm <sup>2</sup> KL-0080-1060	 SuperSeal 1.5 ELA 1.5 - 2.5 mm <sup>2</sup> KL-0080-1069	 DTM 0.5 mm <sup>2</sup> KL-0080-1076	 DT 0.5 - 1.3 mm <sup>2</sup> KL-0080-1081
 MCP 2.8 + JPT ELA 5.2 mm / 0.35 - 1.0 mm <sup>2</sup> KL-0080-1043	 MQS ELA 0.5 - 0.75 mm <sup>2</sup> KL-0080-1054	 MQS ELA 3.45 mm / 0.2 - 0.35 mm <sup>2</sup> KL-0080-1059	 SuperSeal 1.5 ELA 1.5 - 2.5 mm <sup>2</sup> KL-0080-1070	 SuperSeal 1.5 ELA 5.5 mm / 0.75 - 1.5 mm <sup>2</sup> KL-0080-1075	 DT 0.5 - 1.3 mm <sup>2</sup> KL-0080-1080
 MCP 2.8 ELA 0.5 - 1.0 mm <sup>2</sup> KL-0080-1042	 MQS ELA 0.25 - 0.5 mm <sup>2</sup> KL-0080-1055	 MQS ELA 4 mm / 0.5 - 0.75 mm <sup>2</sup> KL-0080-1058	 SuperSeal 1.5 ELA 0.75 - 1.5 mm <sup>2</sup> KL-0080-1071	 SuperSeal 1.5 ELA 5.5 mm / 2.0 - 2.5 mm <sup>2</sup> KL-0080-1074	 DT 1.32 - 2.1 mm <sup>2</sup> KL-0080-1079
 MCP 2.8 ELA 0.2 - 0.35 mm <sup>2</sup> KL-0080-1041	 MQS ELA 0.25 - 0.5 mm <sup>2</sup> KL-0080-1056	 MQS ELA 3.45 mm / 0.5 - 0.75 mm <sup>2</sup> KL-0080-1057	 SuperSeal 1.5 ELA 0.75 - 1.5 mm <sup>2</sup> KL-0080-1072	 SuperSeal 1.5 ELA 5.5 mm / 0.35 - 0.5 mm <sup>2</sup> KL-0080-1073	 DT 1.32 - 2.1 mm <sup>2</sup> KL-0080-1078

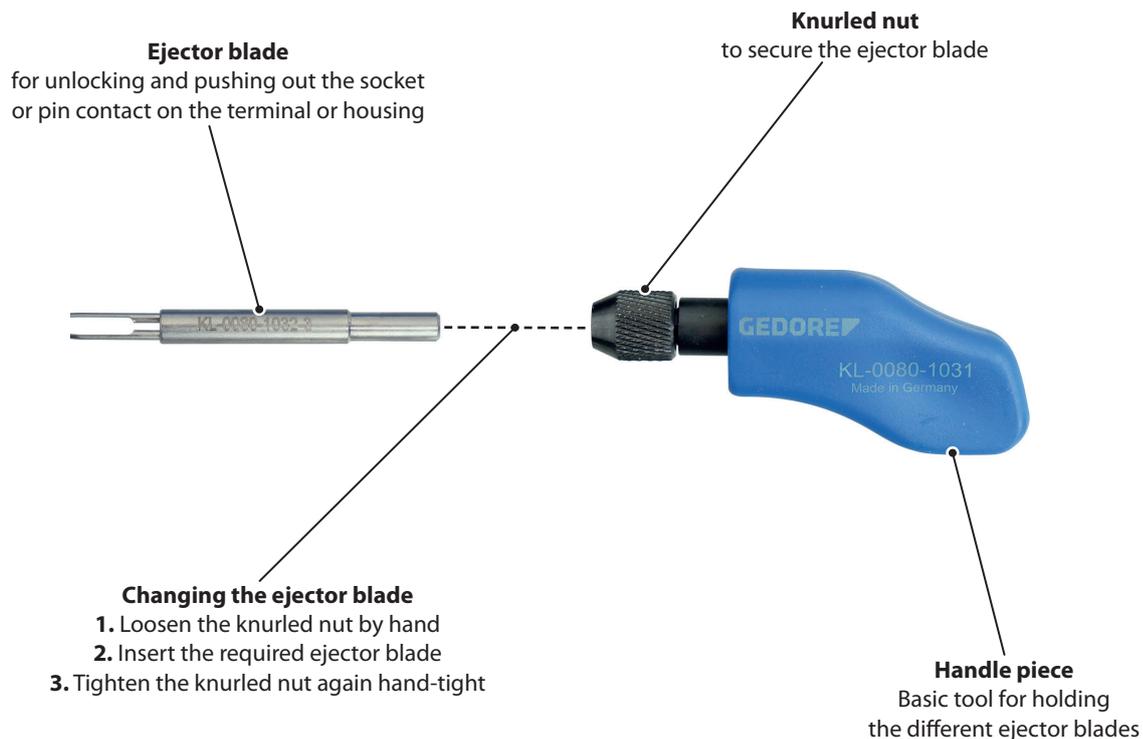
## 2.6 Component overview

This overview shows basic components, designations, and information on the tool.

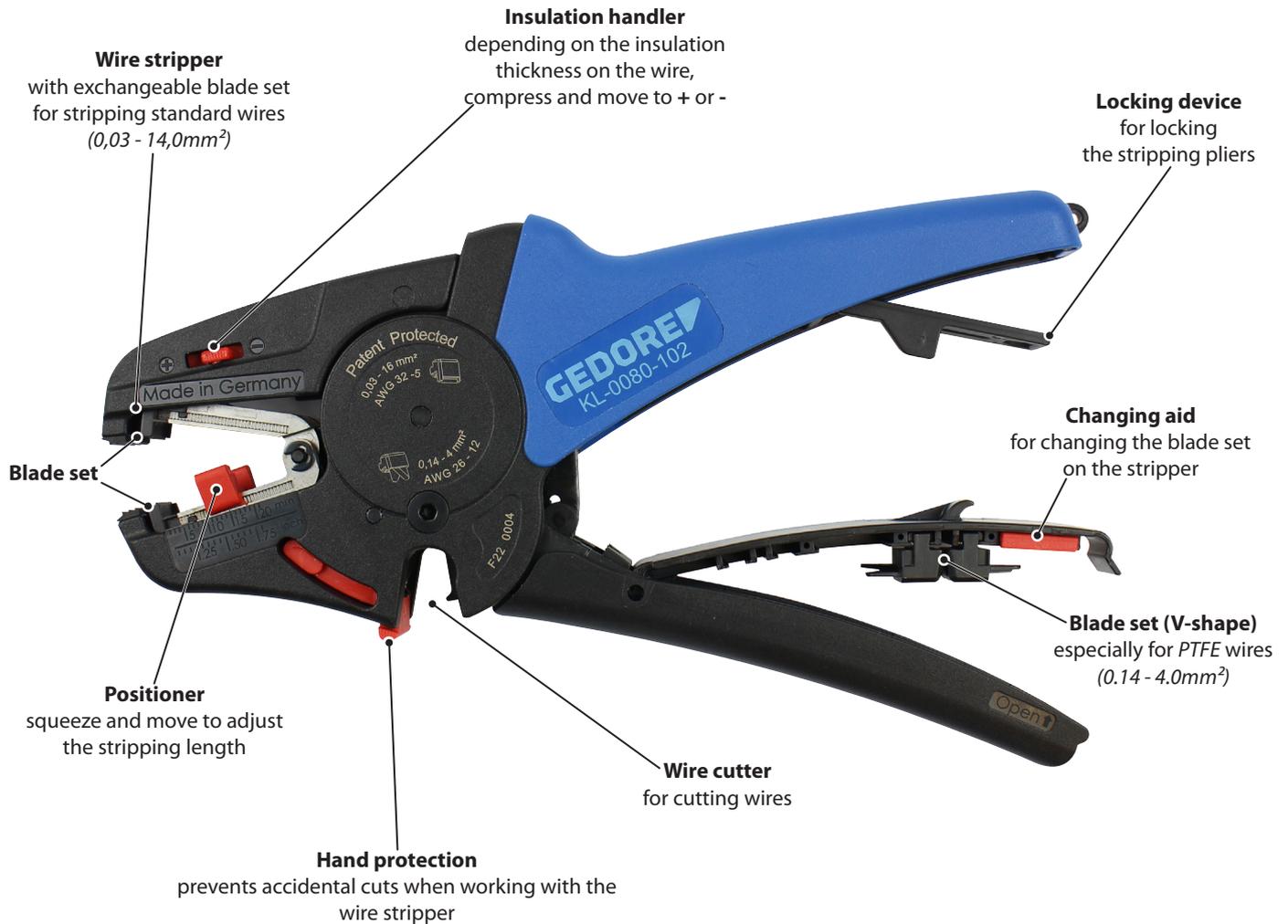
### Plug connection



### Ejection tool

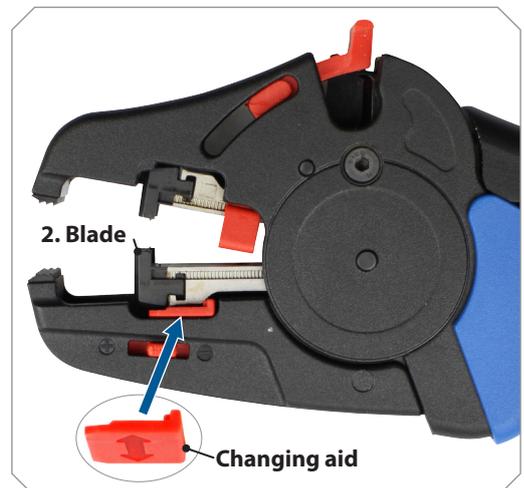
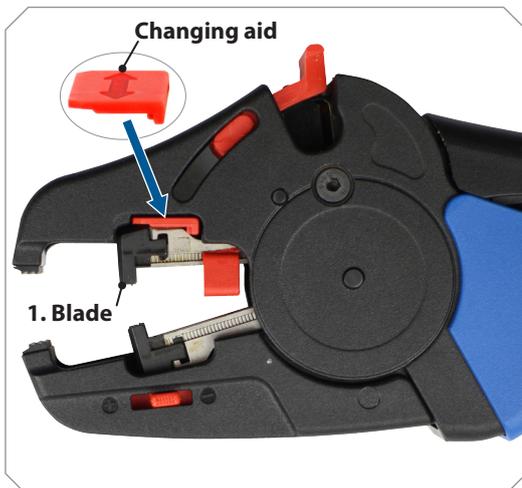


## Wire stripper

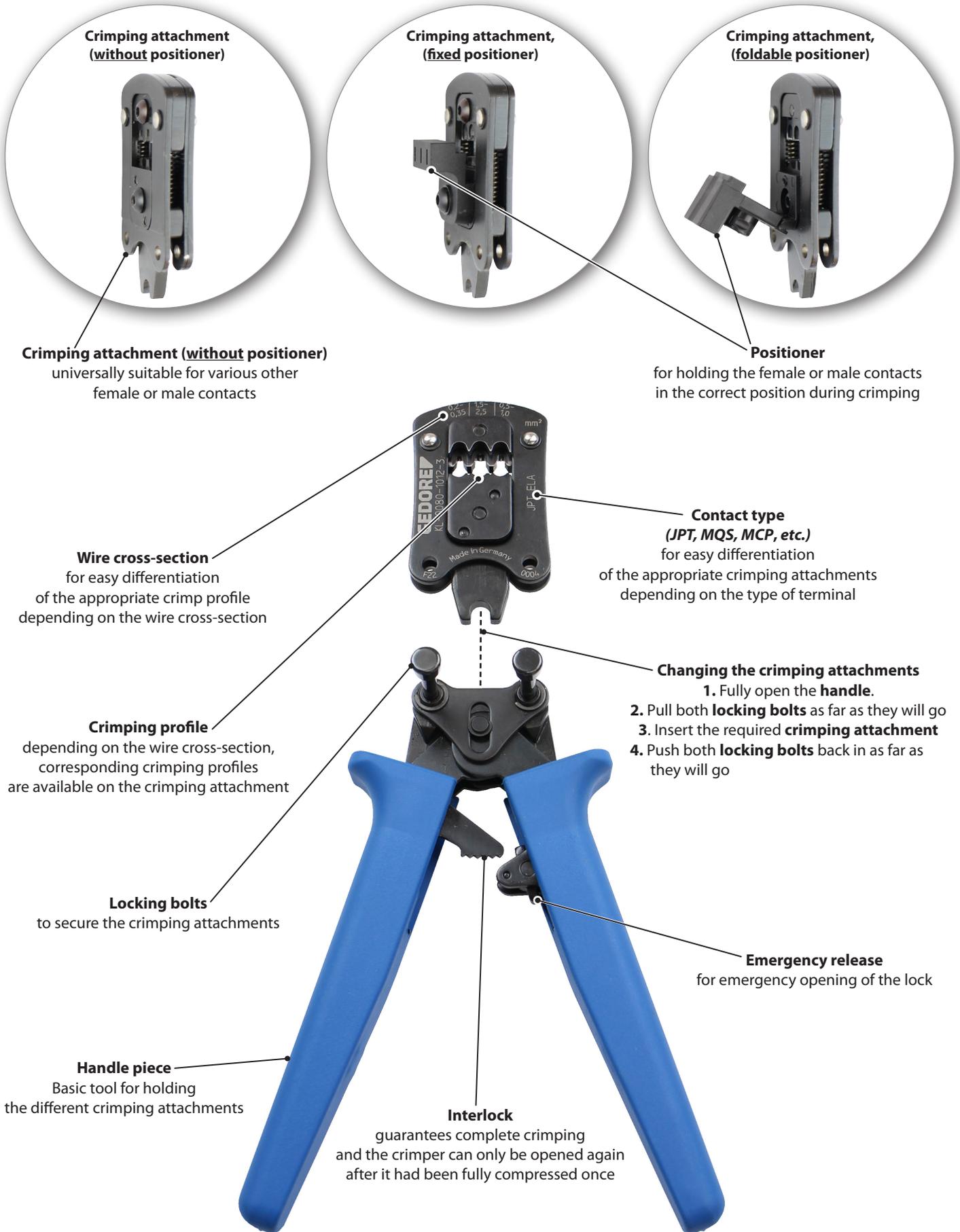


### Changing the blade set

1. Insert the **changing aid** in the correct position on the **stripper**
2. Firmly squeeze the stripping pliers at the **handle piece**
3. Now take the **1st blade** out laterally and replace it
4. Relieve the stripper, remove changing aid
5. Repeat this process for the **2nd blade**



**Crimping tool**



**Crimping attachment (without positioner)**

**Crimping attachment, (fixed positioner)**

**Crimping attachment, (foldable positioner)**

**Crimping attachment (without positioner)**  
universally suitable for various other female or male contacts

**Positioner**  
for holding the female or male contacts in the correct position during crimping

**Wire cross-section**  
for easy differentiation of the appropriate crimp profile depending on the wire cross-section

**Contact type (JPT, MQS, MCP, etc.)**  
for easy differentiation of the appropriate crimping attachments depending on the type of terminal

**Crimping profile**  
depending on the wire cross-section, corresponding crimping profiles are available on the crimping attachment

**Changing the crimping attachments**

1. Fully open the **handle**.
2. Pull both **locking bolts** as far as they will go
3. Insert the required **crimping attachment**
4. Push both **locking bolts** back in as far as they will go

**Locking bolts**  
to secure the crimping attachments

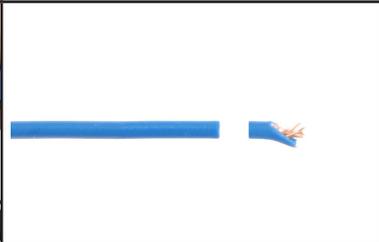
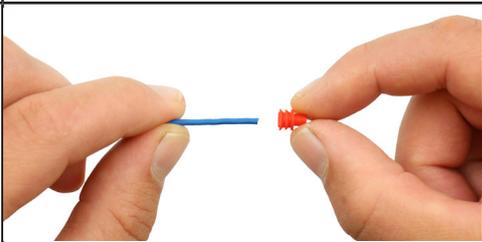
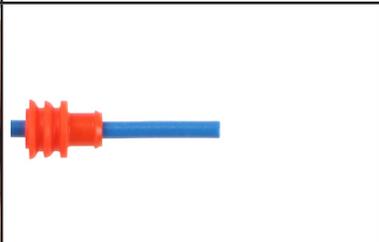
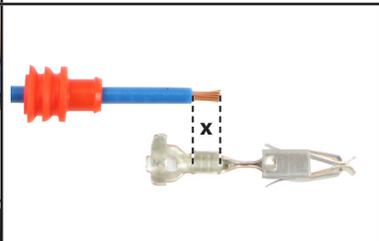
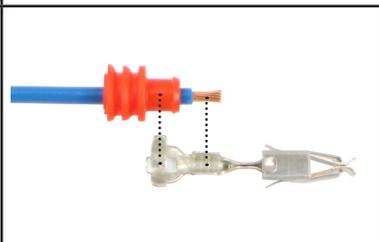
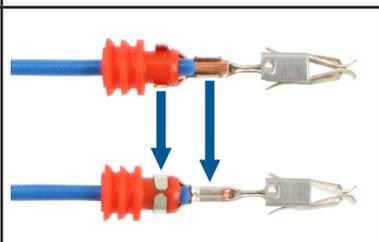
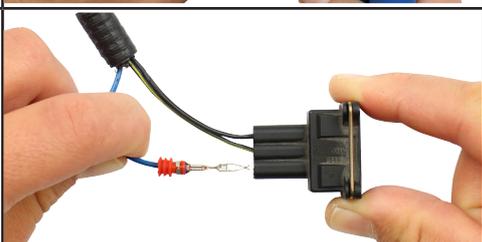
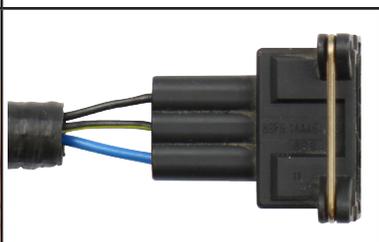
**Emergency release**  
for emergency opening of the lock

**Handle piece**  
Basic tool for holding the different crimping attachments

**Interlock**  
guarantees complete crimping and the crimper can only be opened again after it had been fully compressed once

### 3. SHORT APPLICATION OVERVIEW

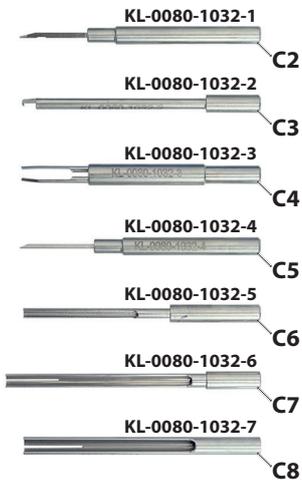
This overview briefly shows the individual work steps; the comprehensive application example can be found in **chapter 4**.

Work step		Result on the wire
<p>Unlock the female or male contact with the <b>ejection tool</b> and remove it from the terminal or housing.</p>		
<p>Cut the wire properly and straight with the <b>wire stripper</b>.</p>		
<p>For <u>sealed</u> connections, first fit a suitable <b>seal (ELA)</b> to the wire.</p>		
<p>Strip the wire with the <b>stripping pliers</b> to match the female or male contact.</p>		
<p>Insert the female or male contact on the <b>crimping attachment</b> in the correct position. Align the <b>seal (ELA)</b> accordingly to the wire.</p>		
<p>Properly insert the wire at the female or male contact and crimp with the <b>crimping tool</b>.</p>		
<p>Re-insert and lock the female or male contact on the wire terminal or housing.</p>		

## 4. TYPICAL APPLICATION

This typical application describes the repair of a **JPT ELA** female or male contact on a **low-voltage** wire-terminal connection, for example, on cars, commercial vehicles, vans, buses, construction machinery, agricultural machinery, trailers, and semi-trailers.

**📷1:** Assemble the ejection tool [C] accordingly according to the terminal.



1. Depending on the terminal such as **MCP, JPT, MQS, DTM, DT, AWG, or Superseal**, insert a suitable ejector blade [C2 - C8] onto the handle [C1] and secure it hand-tight with the **knurled nut**.

**C2** = Superseal + female flat spade wire terminals

**C3** = Superseal + German DTM/DT (*suitable for secondary locks*)

**C4** = MCP 2.8 + JPT + SPT + female flat spade wire terminals 2.8 + TE Junior Power Timer

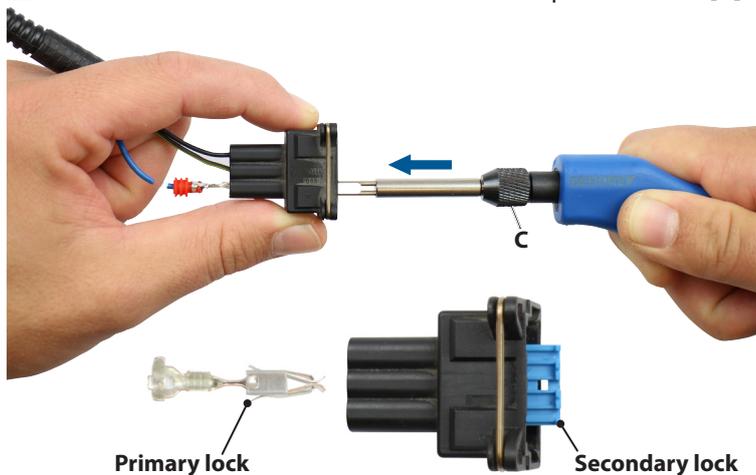
**C5** = MQS / FC1+3 / CPC

**C6** = Deutsch DTM

**C7** = Deutsch DT

**C8** = Deutsch DT

**📷2:** Unlock the female or male contact with the push-out tool [C] and remove it.



2. First unlock any **secondary locks** on the wire terminal or housing, for example, by using the ejection tool [C].

Unlock the **primary locks** as follows on the female or male contact, and remove it.

**Result on the wire**



**📷3:** Use the wire stripper [B] and cut the wire properly and straightly.

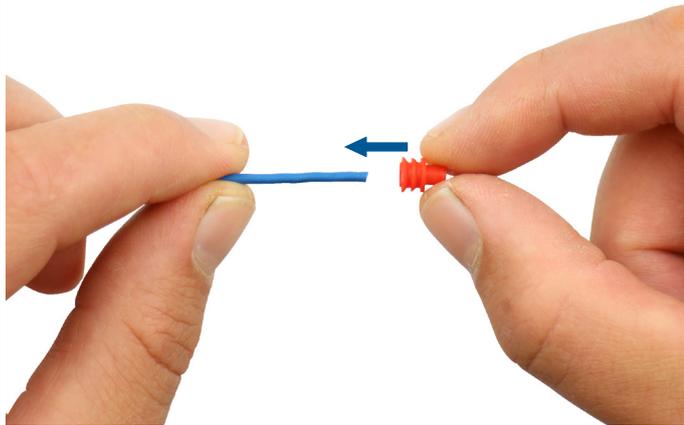


3. Use the **cutter** and cut the wire at the wire stripper [B] properly and straightly.

**Result on the wire**



**4:** For sealed terminals, fit an additional suitable **connector seal (ELA)** to the wire.



4. For sealed plug connections, fit a suitable **connector seal (ELA)** in the correct position on the wire.

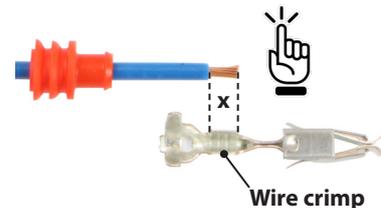
**i** ELA = single conductor seal



**5:** Adjust the stripping length (x mm) on the **positioner** of the stripping pliers [B].



5. Press the **positioner** on the wire stripper [B] and adjust it by moving it so that the required stripping length (x mm) on the cable matches the wire crimp on the female or male contact.



**6:** Remove the wire insulation with the wire stripper [B].

6. Strip the insulation from the wire using the wire stripper [B]. Insert the wire on the **stripper** until it is in contact with the **positioner**.



**7:** Select the appropriate crimping attachment [A2 - A12] according to the terminal.

**Superseal 1.5 ELA**



A2

**JPT**



A3

**JPT ELA**



A4

**MQS**



A5

**MQS ELA**



A6

**MCP 2.8**



A7

**MCP 2.8 ELA**



A8



A1

**DTM/DT series, twisted**



A9

**Universal**



A10

**AWG 10-12**



A11

**AWG 14-22**



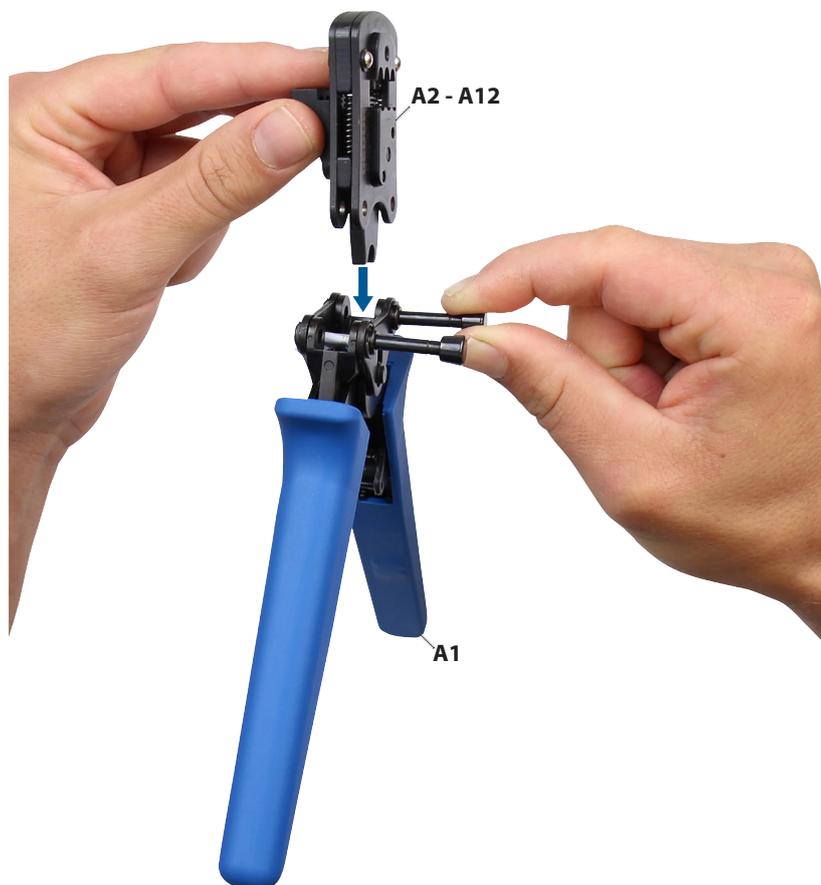
A12

7. Depending on the terminal, for example **MCP, JPT, MQS, DTM, DT, AWG, Superseal**, etc., select a suitable crimping attachment [A2 - A12].

① For sealed terminals, always use a suitably marked **ELA** crimping attachment.

① **ELA = single conductor seal**

**8:** Insert the selected crimping attachment [A2 - A12] onto handle [A1] and fix it.



A2 - A12

A1

8. Insert the selected crimping attachment [A2 - A12] in the correct position on the handle [A1].

Close the handle [A1] once completely and open it as far as it will go.

Then pull out both **locking bolts**, insert the matching stripping attachment [A2 - A12] and secure it with the two **locking bolts**.

① If necessary, the handle [A1] can also be opened with the **emergency release**. (See Chapter 2.6)

**9:** Insert the female or male contact in the correct position on the **positioner** or crimping attachment [A2 - A12].



Typical application: Deutsch DTM/DT twisted + Universal



Typical application: AWG 10-12 + AWG 14-22

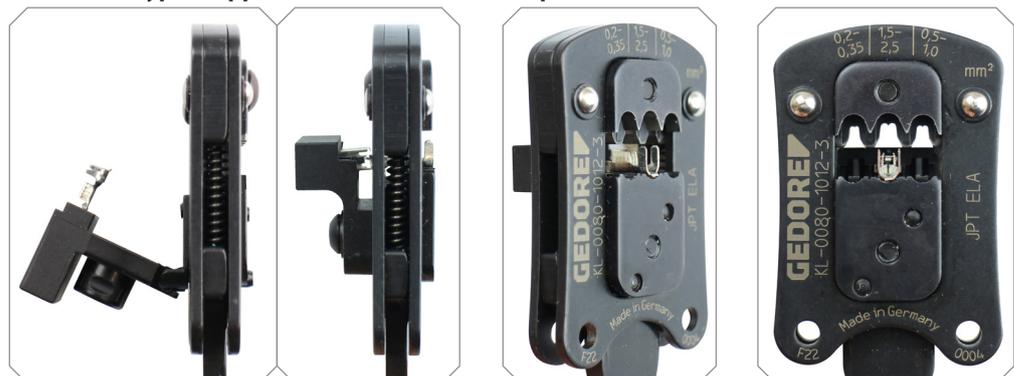


9. Insert the female or male contact in the correct position on the **positioner** or crimping attachment [A2 - A12].

① Use the correct **crimping profile** on the crimping attachment [A2 - A12], depending on the wire cross-section (mm<sup>2</sup>).

① Folding **positioners** facilitate the insertion of particularly small female or male contacts.

Typical application: MQS, MCP, JPT, Superseal (with and without ELA)



**10:** Properly insert the wire at the female or male contact and fully crimp it.

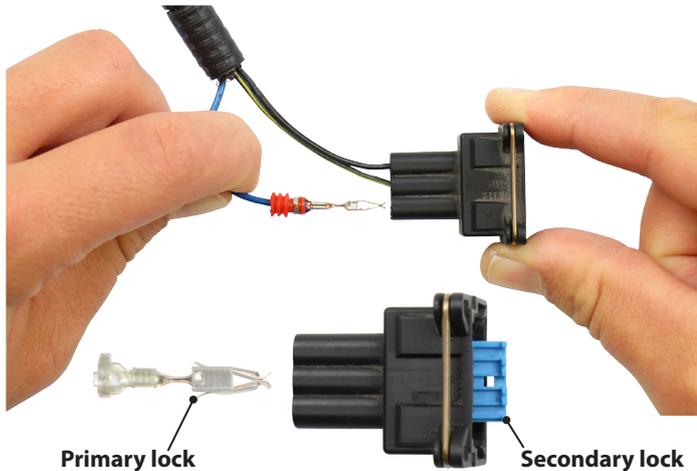


**10.** Insert the wire in the correct position at the **wire crimp** of the female or male contact.

ⓘ For sealed terminals, ensure that the **seal (ELA)** is correctly positioned towards the **insulation crimp**.

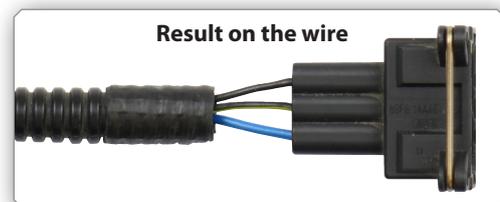


**11:** Re-insert and lock the female or male contact on the wire terminal or housing.



**11.** Insert the female or male contact in the correct position on the terminal or housing until the **primary lock** engages.

Lock any possible **secondary locks** on the terminal or housing.



## 5. CARE / STORAGE

### CAUTION

Improper care and storage can damage the special tool. Therefore, **never** immerse the special tool in water, solvents, or other cleaning liquids. After use, clean all parts **only** with a dry and clean cleaning cloth. To protect against corrosion, rub all metal parts with a tool care oil or wax. Store the special tool and the operating instructions at a dry and clean place.

## 6. ENVIRONMENTALLY COMPLIANT DISPOSAL

Dispose of the special tool and its packaging material in an environmentally compatible way in accordance with the legal requirements. If necessary, ask your local authorities about environmentally friendly disposal options.

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