
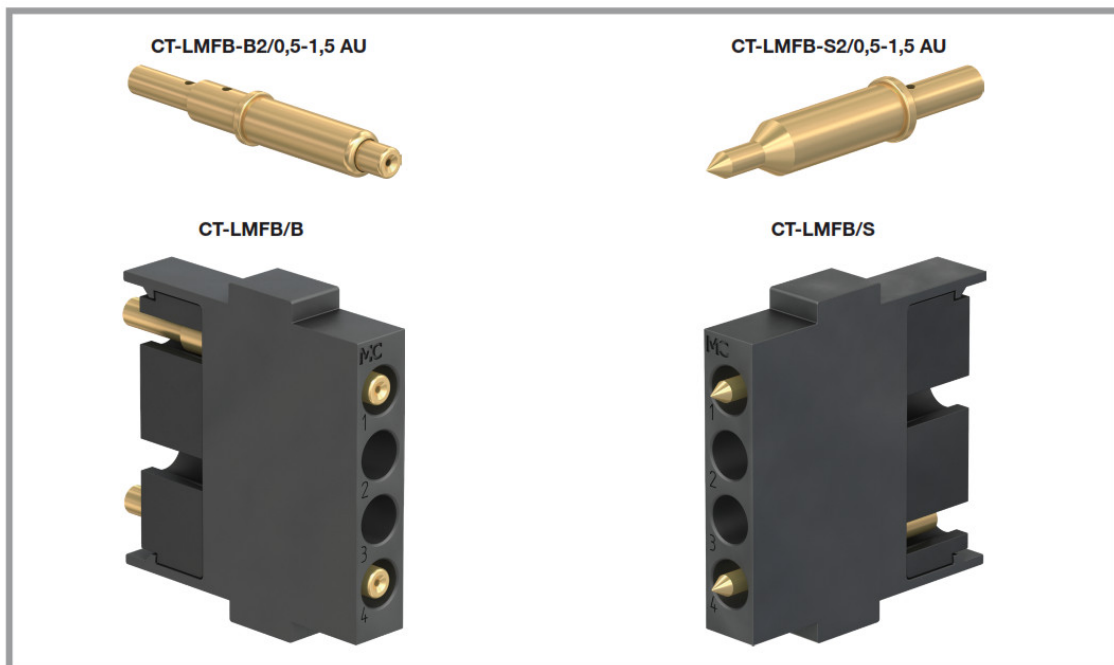


STAUBLI MA213-07 CombiTac Uniq Instruction Manual

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MA213-07 (de_en)
Assembly instructions
CombiTac uniq
(Last Mate First Break-LMFB)



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Safety instructions

Use only the components and tools specified by Staubli. In case of self-assembly, do not deviate from the preparation and assembly instructions as stated herein, otherwise Staubli cannot give any guarantee as to safety or conformity with the technical data. Do not modify the product in any way.

Connectors not originally manufactured by Staubli which can be mated with Staubli elements and in some cases are even described as 'Staubli-compatible' by certain manufacturers do not conform to the requirements for safe electrical connection with long-term stability, and for safety reasons must not be plugged together with Staubli elements. Staubli therefore does not accept any liability for any damages resulting from mating such connectors (i.e. lacking Staubli approval) with Staubli elements.

Staubli Electrical Connectors (Staubli) does not accept any liability in the event of failure to observe these warnings.



Installation, electrotechnical expertise

The products may be assembled and installed by electrically skilled or instructed persons duly observing all applicable safety regulations.



Caution, risk of electric shock

Work in a de-energized state. Follow the five safety rules, when working on electrical installations. After the respective electrical installations have been identified, the following five essential requirements shall be undertaken in the specified order unless there are essential reasons for doing otherwise:

- disconnect completely:
- secure against re-connection:
- verify absence of operating voltage:
- carry out grounding and short-circuiting:
- provide protection against adjacent live parts. Any person engaged in this work activity shall be electrically skilled or instructed, or shall be supervised by such a person. Source: EN 50110-1:2013

Protection against electric shock shall be checked in the end-use applications too.

Do not disconnect under load

Plugging and unplugging when live is permitted.



Caution

Each time the connector is used, it should previously be inspected for external defects (particularly the insulation). If there are any safety concerns, an electrically skilled person must be consulted or the connector must be replaced. The plug connectors are watertight in accordance with the product specific IP protection class. Unmated plug connectors must be protected from moisture and dirt. The male and female parts must not be plugged together when soiled.

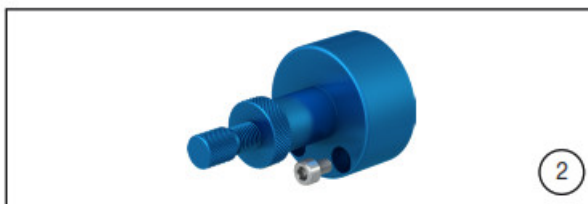
Useful hint or tip

For further technical data please see the product catalog.

Tools required

(ill. 1) Crimping pliers CT-M-CZ, Order No. 33.3800

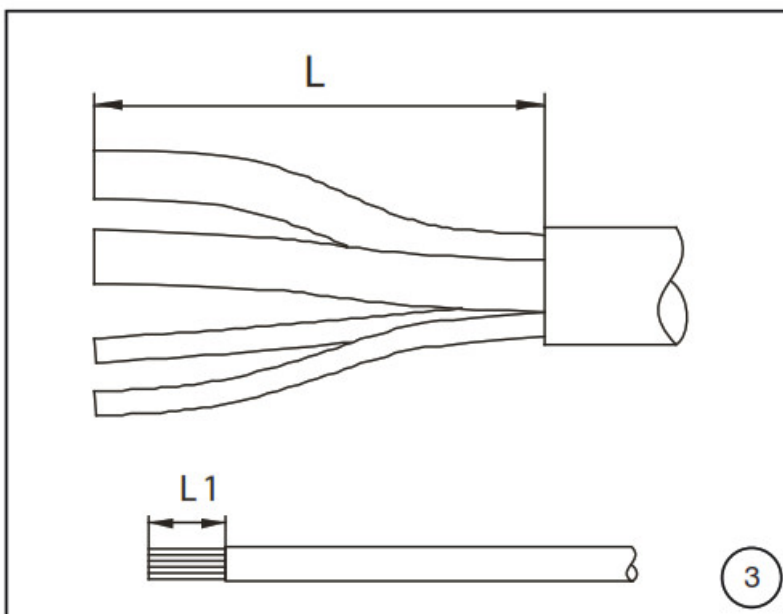
(ill. 2) Adjustable locator MES-CZ, (for conductor cross section 0,14 — 4 mm²) Order No. 18.3801



Cable preparation

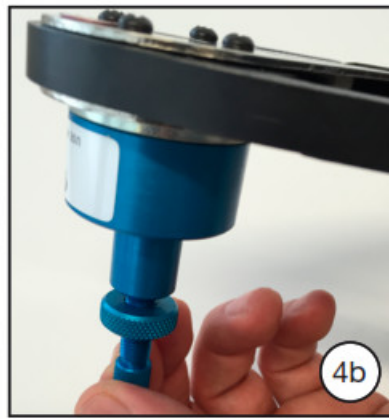
i **Note:** I Make sure that no pulling forces are present at the contacts through the assembled leads (Cable strain relief).

(ill. 3) Place accessories (e.g. cable gland) on the cable. Strip cable and single conductors. Lenght L1 for single conductors, see Tab. 1.



Tab. 1

Leiterquerschnitt Conductor cross section		Crimpzange/Crimping pliers			
		CT-M-CZ			LI
mm2	AWG	Selector AWG-N°	Selector SEL-N°	Locator	mm
0.5	20	20	4		
0.75	18	18	5		
				MES-CZ	8
1	18	18	5		
2.	16	16	6		



Cable assembly

Crimp connection

Crimping pliers and locator according to ill. 1 and ill. 2.

(ill. 4a, 4b, 4c)

Insert contact as shown (ill. 4a).

Adjust locator as shown (ill. 4b) to ensure contact is at same level as hole (ill. 4a), then lock adjustable locator into position (ill. 4c).



Sichtloch Sight hole



5a

(ill. 5)

Insert wire into the contact crimping sleeve as far as possible, and proceed with crimping (ill 5).



Note: Wires must be visible in the sight hole before and after crimping (ill. 5a).

Assembly



Note: The assembly of LMFB contacts must be carried out by a skilled person using appropriate equipment.

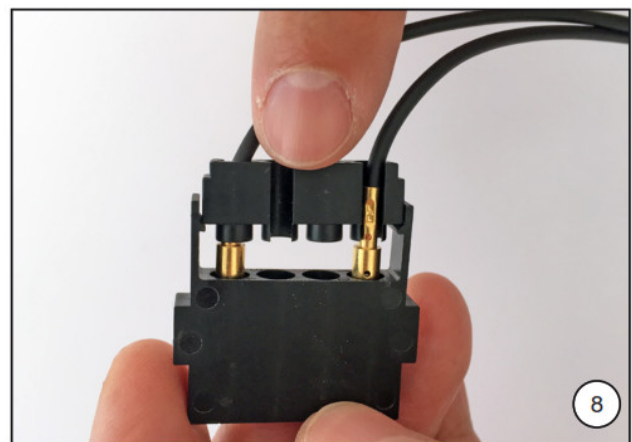
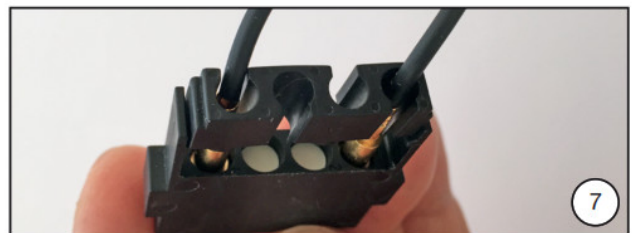
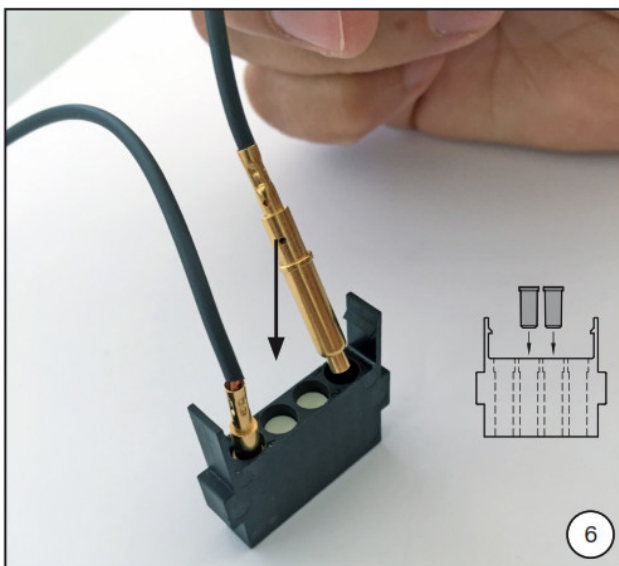


Attention

The positioning of the LMFB contacts in the contact carrier is very important.

The two LMFB contacts should only be placed in the edge slots (slot number 1 and 4). Failure to place the LMFB contacts in the correct position, will lead to incorrect LMFB functionality.

We recommend using blind plugs CT-BSGOF, 33.4080 to fill empty slot positions 2 and 3. Ensure blind plugs are inserted correctly, as seen in ill. 6.



(ill. 6)

Place crimped contacts in the contact carrier slots 1 and 4.

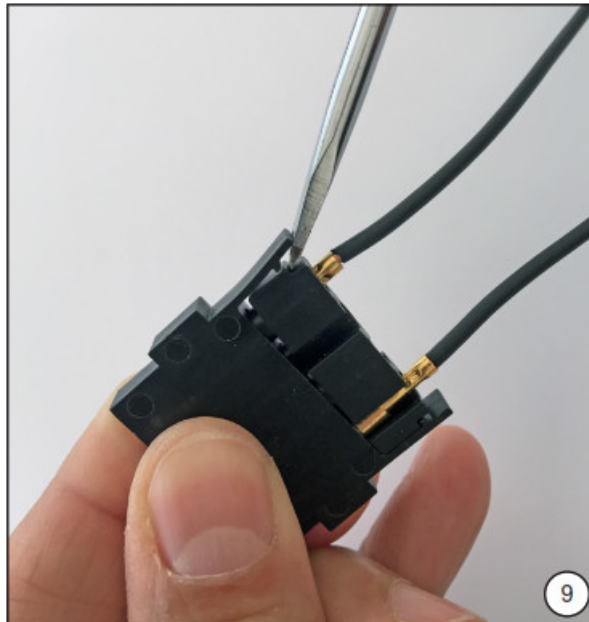
(ill. 7 – 8)

Place the holding plate into the contact carrier.



Attention

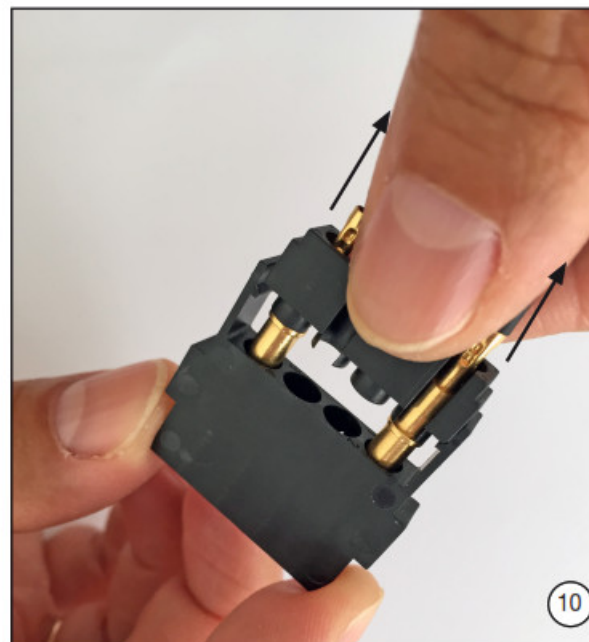
Check correct latching!



Disassembly

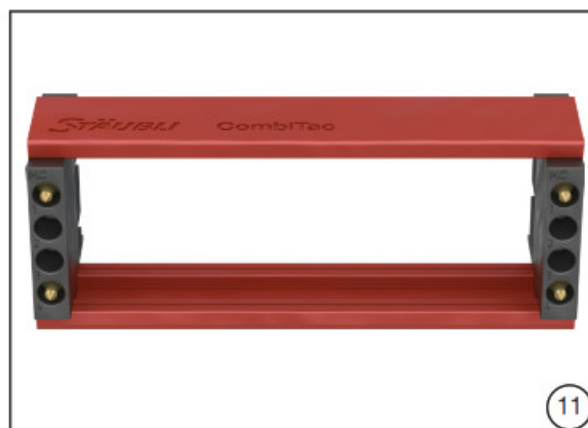
(ill. 9)

Pull the retaining latch outwards to release holding plate.
Depending on the installation position, a screwdriver may be used.



(ill. 10)

Pull holding plate with the contacts out of the contact carrier.



Positioning and wiring of LMFB modules on CombiTac

(ill. 11)

For a single row Combitac, two LMFB modules are required. They must be placed at the edge positions (first and last).

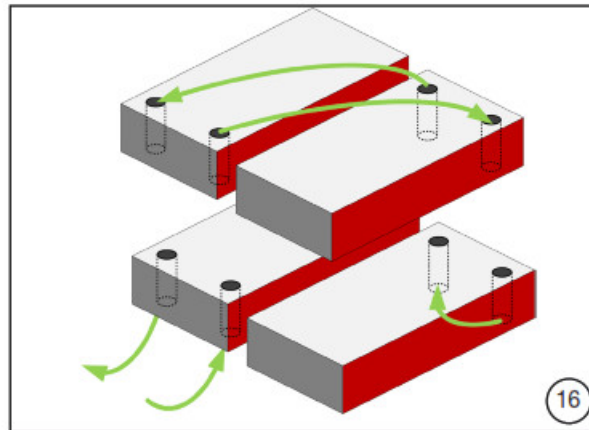
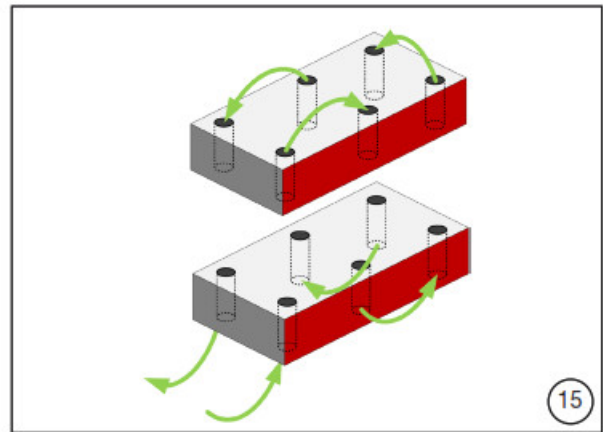
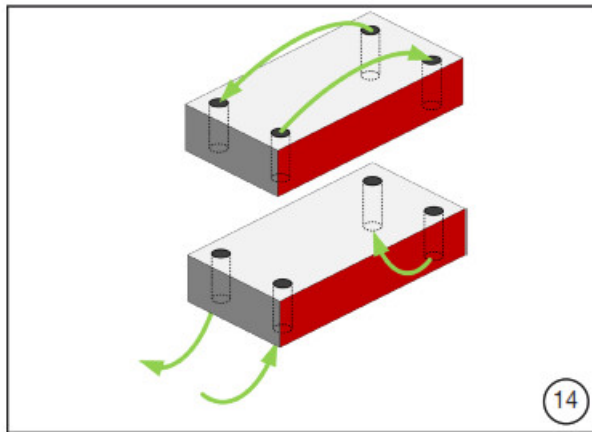


(ill. 12)

For CombiTac rails > 90 mm, if a third LMFB module is needed, two must be placed at the edge positions (first and last), and one in the center.



Note: A double row CombiTac requires two LMFB modules as shown in ill. 13.



(ill. 14 – 16)

Depending on the CombiTac configuration, and to ensure correct functionality of LMFB contacts, the contacts must be connected in series as shown (ill. 14 – 16).

Spacer clamp

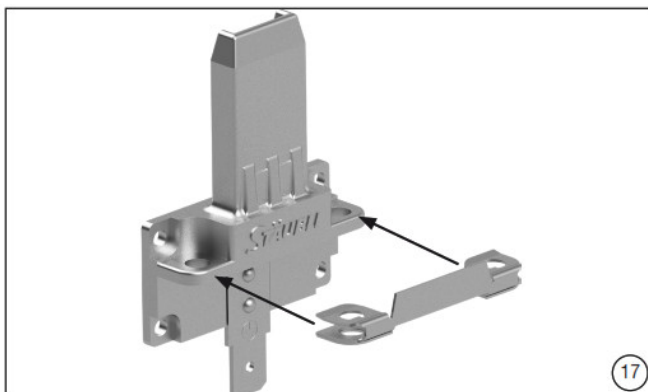
(ill. 17 – 18)

For housing size 1, 6 and pedestal housing size 5, a spacer clamp is used if improvement of tolerance levels is required. The spacer clamp is not included in the delivery and can be ordered separately if needed.

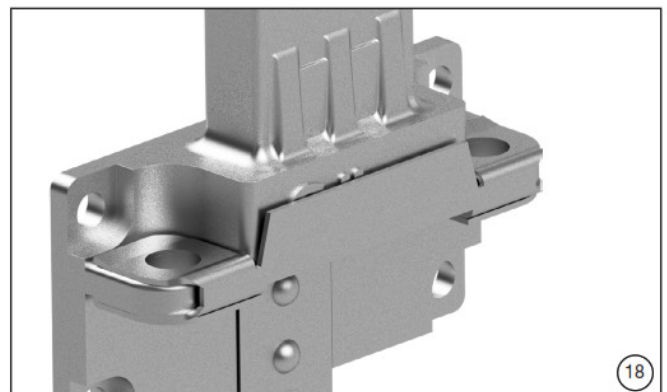
CT-SC0,8

Order No. 33.4157

CT-SC0,8
Bestell-Nr. 33.4157



CT-SC0,8
Order No. 33.4157

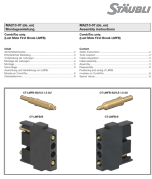


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Änderungen vorbehalten/Subject to alterations

Documents / Resources

	<p>STAUBLI MA213-07 CombiTac Uniq [pdf] Instruction Manual MA213-07 CombiTac Uniq, MA213-07, CombiTac Uniq, Uniq</p>
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Manuals+.