Tools and accessories for crimp contacts

for contacts of inserts series:		page:
CX 6/6	(100A)	**206**
MIXO	(200A/100A/70A)	**262 - 266**

manual crimping tool
crimping dies

removal tool

description	part No.	part No.
crimping tool for **70A/100A/200A** series contacts basic tool mod. CEMBRE HT 45 excluding crimping dies and locators [1]	**CPPZ C**	
crimping dies for CX7 contacts with 10 mm² (AWG 8 - 7) section for CX7 contacts with 16 mm² (AWG 6 - 5) section for CX7 contacts with 25 mm² (AWG 4 - 3) section	 **CGD 10 C** **CGD 16 C** **CGD 25 C**	
crimping dies for CG contacts with 10 mm² (AWG 8 - 7) section for CG contacts with 16 mm² (AWG 6 - 5) section for CG contacts with 25 mm² (AWG 4 - 3) section for CG contacts with 35 mm² (AWG 2) section	 **CGD 10 C** **CGD 16 C** **CGD 25 C** **CGD 35 C**	
crimping dies for CY contacts section 16 mm² (AWG 6) for CY contacts section 25 mm² (AWG 4) and section 35 mm² (AWG 2) for CY contacts section 50 mm² (AWG 1) for CY contacts section 70 mm² (AWG 2/0)	 **CGD 25 C** **CYD 35 C** **CYD 50 C** **CYD 70 C**	
locator for CX7 contacts for CG contacts for CY contacts	 **CX7PZ LOC** **CGPZ LOC** **CYPZ LOC**	
removal tool for 70A CX7 series contact		**C7ES**

[1] part No. **CPPZ CF:** manual crimping tool carrying case (CGPZ VLG) complete with crimping tool (CPPZ C),crimping dies (CGD/CYD) and locator (CX7PZ LOC, CGPZ LOC, CYPZ LOC).

NOTE:
For **CGMA 35** and **CGFA 35** contacts, and their corresponding **CGD 35 C** matrix pair, the contact may be inserted even after closing the head.

part No.	punching	contacts	mm²	AWG min (mm²)	AWG max (mm²)
CGD 10 C	ME 2	**CX7MA 10, CX7FA 10, CGT 6.0, CGT 10**	10	8 (8,4)	7 (10,6)
CGD 16 C	ME 3	**CX7MA 16, CX7FA 16**	16	6 (13,3)	5 (16,8)
CGD 25 C	ME 5	**CX7MA 25, CX7FA 25**	25	4 (21,2)	3 (26,7)
CGD 10 C	ME 2	**CGMA 10, CGFA 10**	10	8 (8,4)	7 (10,6)
CGD 16 C	ME 3	**CGMA 16, CGFA 16, CGT 16**	16	6 (13,3)	5 (16,8)
CGD 25 C	ME 5	**CGMA 25, CGFA 25, CGT 25**	25	4 (21,2)	3 (26,7)
CGD 35 C	ME 7	**CGMA 35, CGFA 35**	35	—	2 (33,6)
CGD 25 C	ME 5	**CYMA 16, CYFA 16**	16	6 (13,3)	—
CYD 35 C	ME 9	**CYMA 25, CYFA 25**	25	4 (21,2)	—
		CYMA 35, CYFA 35	35	2 (33,6)	—
CYD 50 C	ME 12	**CYMA 50, CYFA 50**	50	1 (42,4)	—
CYD 70 C	ME 17	**CYMA 70, CYFA 70**	70	2/0 (67,4)	—

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General specifications

The **CPPZ C crimping tool** is a hydraulically operated tool suitable for manually crimping contact series (70A/100A/200A max) removable crimp contacts which may be used in **MIXO** series type **CX7, CG, CY** and **CGT** adaptors. By using a suitable, hexagonal footprint crimp matrix pair, these pliers allow crimped connections to be made which conform to the highest quality standards.

The main features of these pliers are listed below:
- Scope of application: suitable for crimping wire terminals for up to 150 mm² flexible copper wires.
- Force developed: 50 kN (6 tons).
- Nominal operating pressure: 600 bar (8.600 psi).
- Dimensions: length 346 mm (13,6'');
  width (locked moving handle) 130 mm (5,1");
  width (free moving handle) 250 mm (9,8").
- Weight: (without matrixes and without ILME locator) 2,0 kg (4,4 lbs).
- Recommended oil: AGIP ARNICA 32 or SHELL TELLUS OIL TX 32 or equivalent.
- Other features: please read the user and maintenance manual supplied with the tool.

The pliers are equipped with a locator specifically designed for ILME crimp contacts to be mounted on the moving part of the pliers head by means of the Allen screw provided.

NOTE: It is possible to use the CPPZ C pliers with the CX7 70A, CG 100A and CY 200A contact series, by simply fitting the CX7PZ LOC, CGPZ LOC or CYPZ LOC locator and crimping matrixes to be purchased separately.

WARNING: For crimping the CGT adaptors, the crimp locating operation must be carried out by the user.

User instructions

1. Preliminary operations

According to requirements, the pliers can be fitted with one or more pairs of crimp matrixes selected from the matrixes listed in the catalogue, to crimp the contacts shown in the table page 720.

NOTE: *The crimp contacts are only suitable for crimping flexible copper wires featuring a nominal section shown in the table with the crimp matrixes shown in the table. Any contacts – wires – matrixes combination which does not conform to these instructions is not physically possible (ex: using 35 mm² contacts with CGD 25 C matrixes is not possible because the pliers head would not close) or produces non conforming crimped connections or not usable in the MIXO series.*

Open the tool head by moving the matrix supporting hook ❸ outwards until the matrix support ❶ is released.

With reference to **Figures 1 and 2**, select a pair of matrixes suitable to the type of contact and insert them in the housings: one in the matrix support ❶, the other one in the matrix pusher support ❷. (NB: the two matrixes of each pair are the same).

Insert the contact by resting it in the locator with the tip forward, then close the head.

The contact crimp housing will be accessible in the mouth between the matrixes.

Remove the moving handle ❹ by removing the handle locking belt from the handle.

Before carrying out the next operations, make sure the head is fully closed to avoid damages.

The pliers head can rotate by 180° in relation to the body, thus allowing the operator to work in the most comfortable position.

WARNING: do not force the head by trying to rotate it when the tool is under pressure.

2. Approaching the matrixes

If possible closing the dies, rest the pliers head on a work top, then move the moving handle to start moving the matrixes closer to the contact, then carry on moving them until the contact is locked between the matrixes.

Push the correctly stripped and suitable long (**15 mm**) wire all the way in the contact (or the CGT adaptors) crimp housing by carefully checking that the braids are fully compacted, are not damaged and, above all, are all fully inserted. Correctly pushing the contact in the locator ensures that the matrixes are exactly in the right area to compress (the contact crimp shaft centre). Make sure that the locator is free from any residue which would alter the position of the contact. For crimping the CGT 16 earth adaptor, manually locate the area to be crimped between the matrixes. If necessary, re-open the matrixes by following the instructions described in paragraph 4 and reposition the contact.

3. Crimping

Continue to operate the moving handle (pumping): the piston will gradually move forward until the matrixes come into contact.

Continue the pumping action until the maximum pressure valve clicks in.

4. Releasing the dies

Fully press the pressure release lever ❺ located on the pliers pumping body until the piston goes back and the matrixes open.

To remove the crimped contact, re-open the pliers head.

5. Storage

Fully return the piston as described in paragraph 4, then lock the moving handle in position by using the belt provided.

Cleaning and maintenance

The tool is very sturdy and does not required any special care; a correct operation is ensured by following a few simple precautions.

The tool is supplied with a user and maintenance manual, which gives all detailed instructions. Read this manual before use.

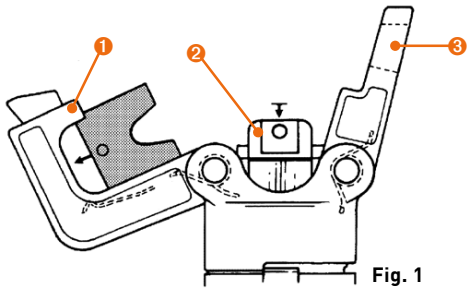

Fig. 1

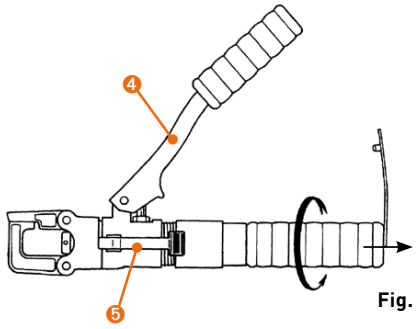

Fig. 2

CGPZ VLG carrying case

for CPPZ C * crimping tool
- dimensions 445 x 290 x h 95 mm
- weight 1,2 kg

houses 20 pairs of matrixes

* to store the CPPZ C crimping tool inside the carrying case, turn the pliers head by 180° so that the locator becomes visible.