

INSTRUCTION MANUAL

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1. INTRODUCTION AND TOOL FEATURES

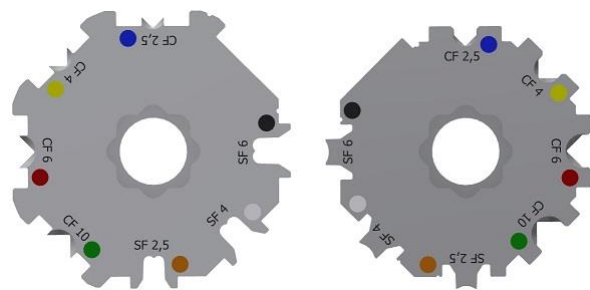
□ With this tool **only** plugs of **appropriate type** have to be used. Crimping plugs of unsuitable type may result with unsatisfactory characteristics of crimped connections and eventually with damaging of the tools and is to be strictly avoided.

1.1 FEATURES

- Tool can crimp 28 different Amphenol solar plugs without need to exchange crimping inserts
- One locator is used for positioning of all Amphenol solar plugs
- Spring loaded holder aligns SF type plugs prior to crimping and prevents plug rotation during crimping
- Crimp nests are fully machined in high carbon steel, heat treated and nickel coated
- Quality crimp due to parallel crimping performance
- Precise eccentric adjustment
- Safety ratchet relief

2. DIE SET CHART

TOOL	PLUG TYPE	MARKING DOT COLOR
mx5	H4/UTX CF 2,5	BLUE
	H4/UTX CF 4	YELLOW
	H4/UTX CF 6	RED
	H4/UTX CF 10	GREEN
	H4/UTX SF 2,5	ORANGE
	H4/UTX SF 4	WHITE
	H4/UTX SF 6	BLACK



UPPER INSERT LOWER INSERT Fig.1

2. CONFIGURATION OF THE TOOL



Fig. 2

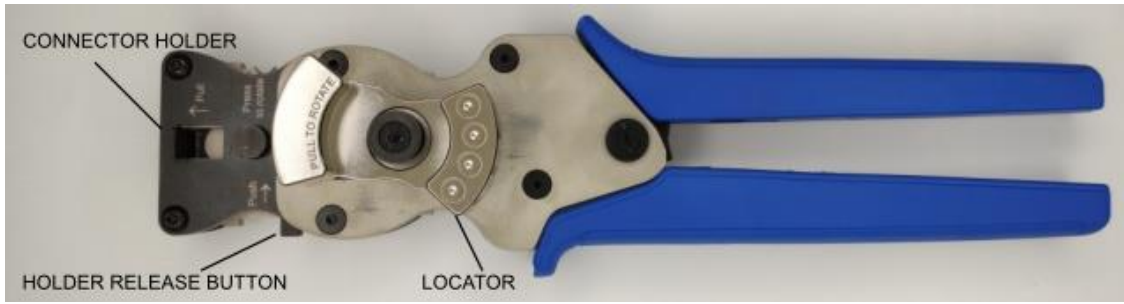


Fig. 3

4. STRIPPING OF WIRE OUTER INSULATION

Correct stripping length: Cable stripping dimension should be as specified by plug manufacturer.
 Sleeve should be free from any damage or broken strands.
 The center conductor and crimp sleeve measures must be within the manufacturer's specifications.



Fig.4

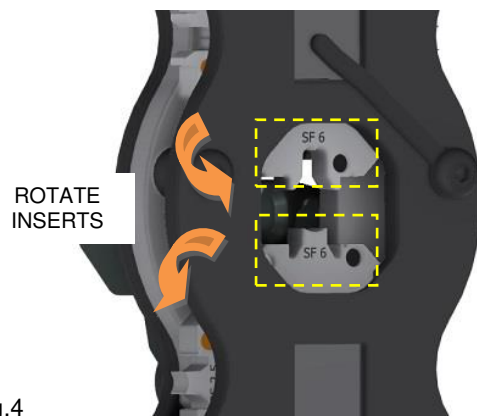


Fig.5

5. WORKING WITH DIE SET

Die set sets consist of two rotational inserts. Inserts should be adjusted by pressing the release pin as shown in Fig.4 and rotating until reaching the right value. Rotation is possible in both ways. Handle should be open before attempting insert rotation. Upper and lower inserts should be set to the same value to achieve the proper crimping. For example to crimp UTX SF 6 plug both dies should be set in a way that SF 6 mark is visible. If upper and lower part of the die are not set to the same value, the tool will block and crimping will be dimmed. Openings are marked with text and color code.



Fig.6



Fig.7

6. LOCATOR SETTING PROCEDURE

Pull the locator away from the tool as shown in Fig.6
 While locator is lifted rotate it in desired direction.
 In order to set locator to wanted position align marking on the locator with marking on the tool frame as shown in Fig.7
 Once aligned release locator so it can return to its position on the tool frame.

7. CRIMPING PROCEDURE

Prepare plug and cable according to the instructions packaged with the plug.
 Ensure that appropriate contact is inserted into right crimping section. Follow instructions shown in Fig. 8 – Fig. 11

① In case the tool becomes block for any reason, please follow unblocking procedure described in section 9.
 After the full crimping cycle is done, let the tool open fully by itself in order to remove crimped plug.
 Pull out the plug assembly. The tool is ready for next crimping cycle.



Fig.8

INSERT THE PLUG

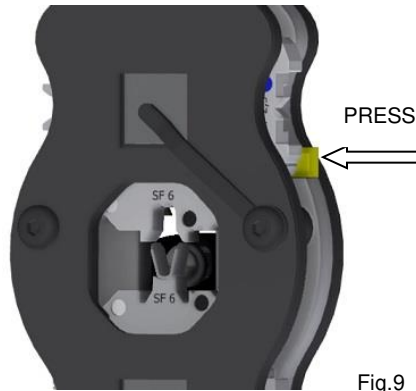


Fig.9

RELEASE THE HOLDER



Fig.10

INSERT CABLE

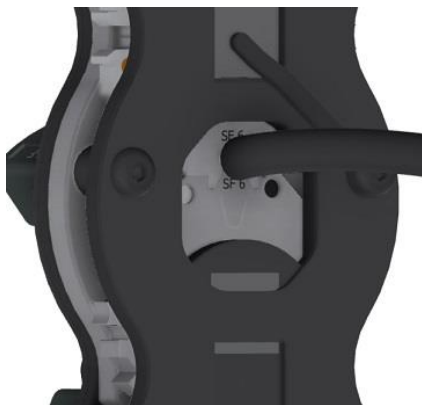


Fig.11

PRESS THE HANDLE UNTIL
 THE END OF STROKE

8. CONNECTOR HOLDER RESET

Connector holder automatically returns to start position during normal crimping cycle.
 In case completed connector holder will stay in its lower position. Prior to next crimping cycle it is necessary to lift holder manually as shown in Fig. 12

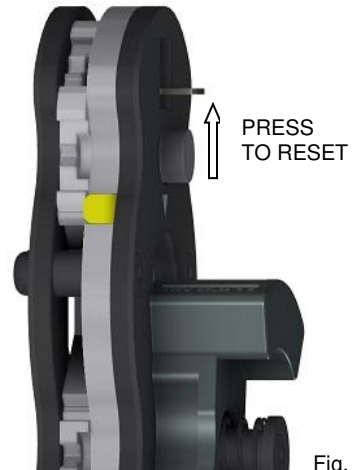


Fig. 12

9. UNBLOCKING THE TOOL

- ❑ **IMPORTANT: Apply working force on the tool handles while unblocking. It will prevent hurting yourself and possible damages on the tool.**
- ❑ In case of improper crimp, push the ratchet relief (Fig.13) in direction shown to unblock the tool and remove obstruction before continuing with the work.

10. TOOL REGULATION PROCEDURE

- ❑ After prolonged work period, tool crimping performance can change slightly due to final self-adjustment of the tools' components. This handtool is equipped with eccentric axle which allows periodical adjustment of crimping force and tool recalibration to maintain correct crimp performance.
1. Loosen knurled nut (C) by turning it counter clockwise (Fig.14)
 2. Press the nut until toothed adjustment wheel (B) is lifted so it can be rotated freely (Fig.13)
 3. Insert screwdriver into adjustment wheel groove and rotate it to achieve desired pretension.
 4. Marking dot at "0" sets lowest pretension, while dot at "10" sets highest pretension
 5. Once pretension is set push adjustment wheel back into its position and tighten knurled nut

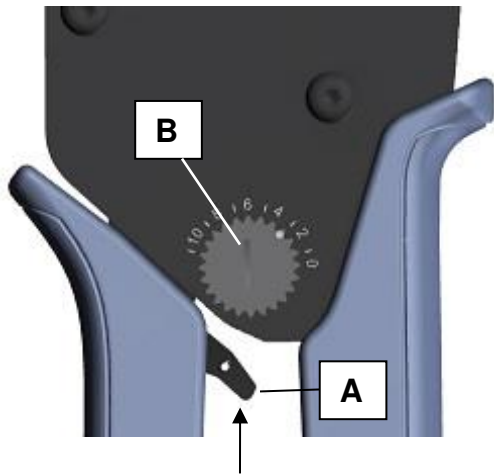


Fig.13



Fig.14

11. MAINTENANCE AND INSPECTION

- ❑ Crimping handtool MultiBEX mx5 is intended to be used for crimping Amphenol solar plugs. Using this handtool for any other purpose, or for crimping of any other objects, can result in damaging the tool and the objects being crimped and prevention of its normal further functioning, for what manufacturer cannot be held responsible.
- ❑ Handtool is equipped with full cycle ratchet mechanism which with optimized leverage system within the tools makes working with these tools easy and simple. In case of improper crimp, ratchet release mechanism allows you to easily open the handtool and remove obstruction before work is continued. Check unblocking procedure (section 9.).
- ❑ Tool itself also incorporates possibility of periodical adjustment of the crimping force and tool recalibration via eccentric axle to maintain correct crimp performance. Check regulation procedure (section 10.)
- ❑ For removal of dust, moisture and other contaminants usage of clean brush or soft, lint-free cloth is recommended. Do not use aggressive agents (thinner, alcohol,...) or hard objects that could damage the tool.
- ❑ Make sure that during the work bearing surfaces, shafts and pivot points are protected with thin coat of quality machine or motor oil. Do not oil excessively.
- ❑ When the tool is not in use, store it in a closed position – with handles closed. That will keep other objects from becoming stuck between crimping dies and damaging them. Keep the tool in a dry and clean area.
- ❑ Use only original spare parts.

12. WARRANTY

This tool is made of the best quality materials. All vital components are long life tested. All tools are warranted to be free of manufacturing defects for a period of 30 days. Should such a defect occur, we would exchange the tool free of charge. This will not be applicable to altered, misused, or damaged tools. This tool is designed for hand use only. Any clamping, fixturing, or use of handle extensions voids this warranty.