

## INSTRUCTION MANUAL

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### 1. INTRODUCTION AND TOOL FEATURES

1.1. Instruction sheet provides application and maintenance procedures for Multibex hand tool with inserts. The hand tool consists of the insert assembly and hand tool frame assembly.

- ❑ 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.

#### 1.2. FEATURES

- ❑ Each insert can crimp 16 sleeve crosssections
- ❑ 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. CONFIGURATION OF THE TOOL

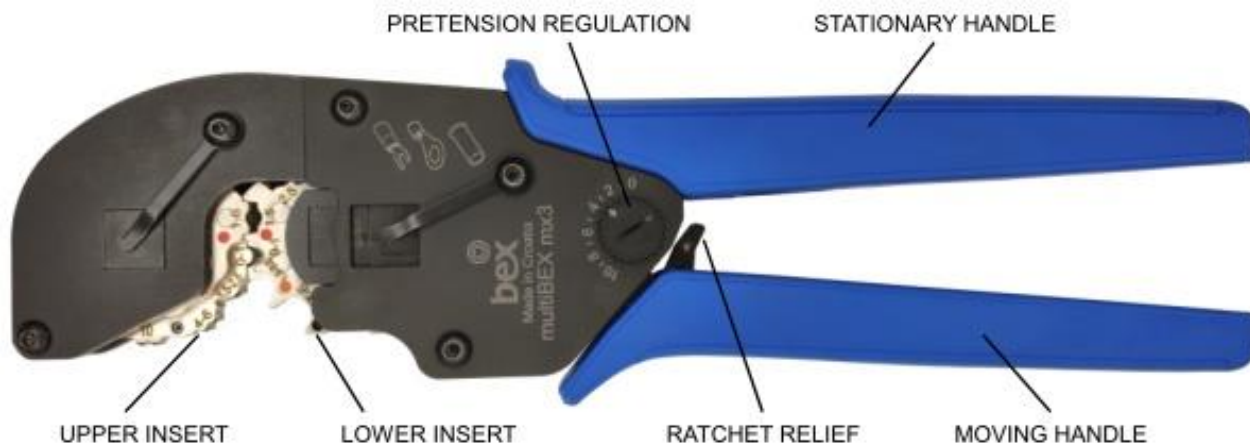


Fig. 1

### 3. 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.

#### 4. TERMINAL CHART

##### UPPER INSERT



##### LOWER INSERT

Fig. 2

TOOL	TERMINAL TYPE	SIZE	MARKING DOT COLOR
mx3	UNINSULATED	0-1	RED
	UNINSULATED	1.5-2.5	ORANGE
	UNINSULATED	4-6	ORANGE
	UNINSULATED	10	BLACK
	SLEEVE	0.25	BROWN
	SLEEVE	0.5	BROWN
	SLEEVE	1	GREEN
	SLEEVE	1.5	GREEN
	SLEEVE	2.5	WHITE
	SLEEVE	4	WHITE
	SLEEVE	6	WHITE
	SLEEVE	10	GREEN
	SLEEVE	16	BROWN
	INSULATED	1.5	RED
	INSULATED	2.5	BLUE
INSULATED	4-6	YELLOW	

#### 5. WORKING WITH DIE SET

MultiBEX mx3 crimp tool consist of two rotational inserts. Inserts should be adjusted by pressing the release pin as shown in Fig. 3 and rotating until reaching the right value. Rotation is possible in both ways. Handle should be open before die set rotating. Upper and lower part of die set should be set to the same value to achieve the proper crimping. 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.

##### 1. PRESS AND HOLD THE PIN



Fig.3

##### 2. ROTATE INSERTS TO DESIRED POSITION

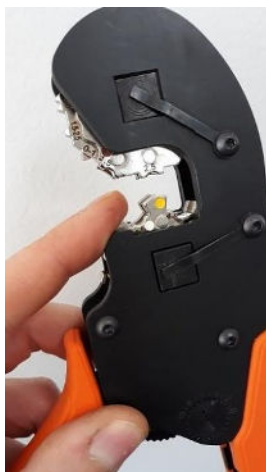


Fig.4

##### 3. MATCH TEXT MARKING AND COLOR DOTS



Fig.5

#### 6. 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. 6 – Fig. 8

① In case the tool becomes block for any reason, please follow unblocking procedure described in section 7. 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.

1. PRESS THE HANDLE UNTIL TERMINAL IS HELD BY INSERTS



Fig.6

2. INSERT CABLE



Fig.7

3. PRESS THE HANDLE UNTILL THE END OF STROKE



Fig.8

## 7. 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.9) in direction shown to unblock the tool and remove obstruction before continuing with the work.

## 8. 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.10)
2. Press the nut until toothed adjustment wheel (B) is lifted so it can be rotated freely (Fig.9)
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

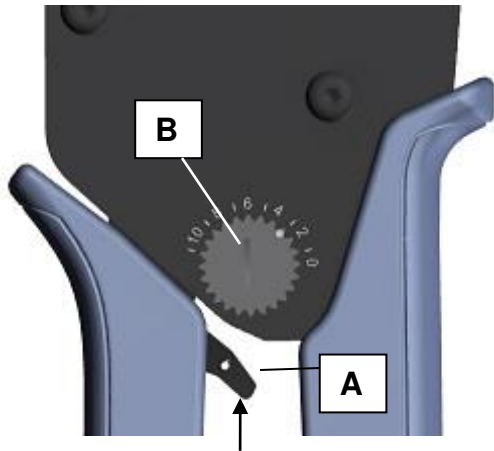


Fig.9



Fig.10

## 9. MAINTENANCE AND INSPECTION

- ❑ Crimping handtool MultiBEX mx3 is intended to be used for crimping end sleeves, insulated and uninsulated terminals. 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.

## 10. 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.