

MOD-Clip™ UTP Four Pair Termination Tool

1. SCOPE

This document covers the instructions for the proper use and maintenance of the Four Pair Termination Tool. The tool is designed to terminate 23-24 AWG solid conductors used to terminate the MOD-Clip™ jacks.

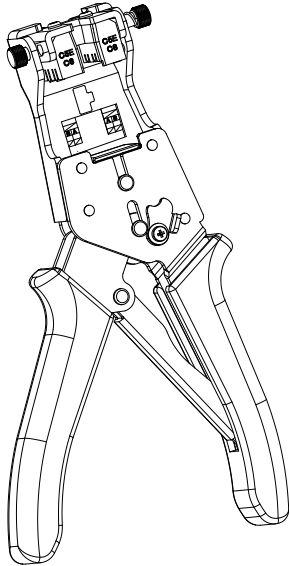


Fig-1

Order No.	SAP No.	Description
31.0010	182520001	MODCLIP TERMINATION TOOL FRAME
31.0012	182520003	UTP Termination Head

2. COMPONENTS

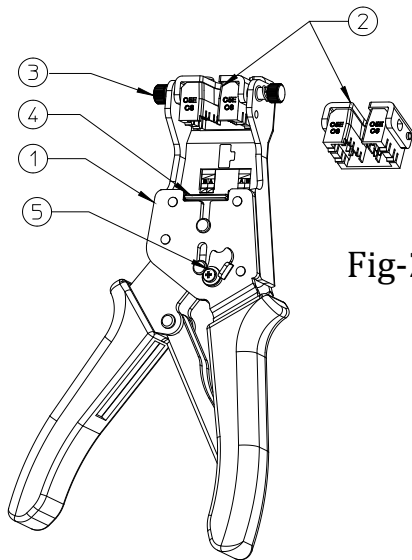


Fig-2

- 1) Tool frame
- 2) Cable termination head
- 3) Termination head pivot
- 4) Modclip pusher
- 5) Handle latch

3. TOOL SET UP

Ensure that the correct lacing head is assembled in the tool frame.

1. For MODCLIP™ jacks the UTP termination head should be used (Refer Fig.3)

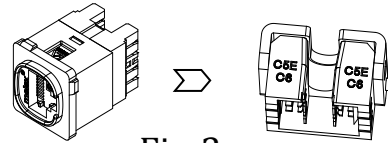


Fig-3

IMPORTANT Note: For termination of the C6A MOD-Clip jack use Termination Tool Frame part no 31.0011. The MOD-Clip Termination frame is not designed to terminate the MOD-Clip C6A shielded jack

4. FIT THE TERMINATION HEAD.

1. Position the UTP Termination head as shown in fig. 4.
2. Install the two (2) Termination head screws. Avoid damaging the screw by over-tightening. Not to exceed torque of 1.25N-m (11 inch-pounds)

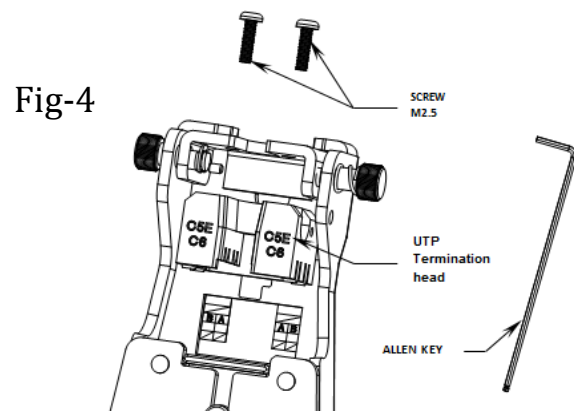


Fig-4

OPERATION:

CAUTION: Terminate only Molex UTP MOD-Clip jacks with this tool. Do not terminate other products or hardened objects as damage can occur to the tool.

While squeezing the handles together, pivot the handle latch away from the pin, and tool handles will spring open.

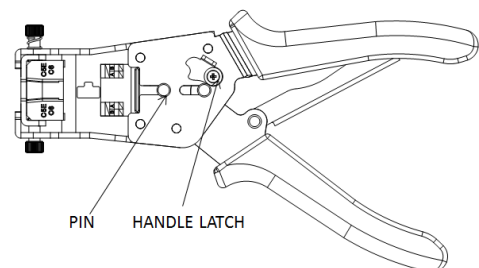


Fig-4.1

5. TERMINATION PROCEDURE

Tools Required:

- a) Cable Stripper
- b) Wire clipper

NOTE: The tool is designed to be used with Molex Premise Networks branded C5E and C6 U/UTP Cable.

5.1 Cable Preparation

Remove 50mm (2" Inches) of cable sheath with cable stripper. Cut the central spline of the UTP cable back to the sheath. See Fig.5.

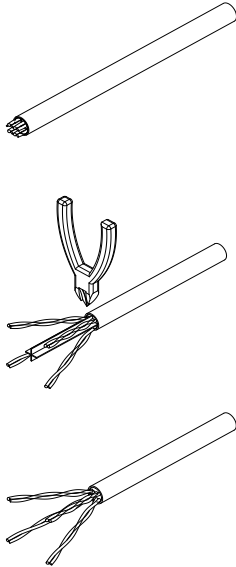


Fig-5

5.2. Lacing Wires into the Termination Head.

Pivot the Termination Head 90° so the wire comb grooves face out from the tool. This is done by pushing the Termination Head to the left and pivoting it until it locks in place. See Fig.6.

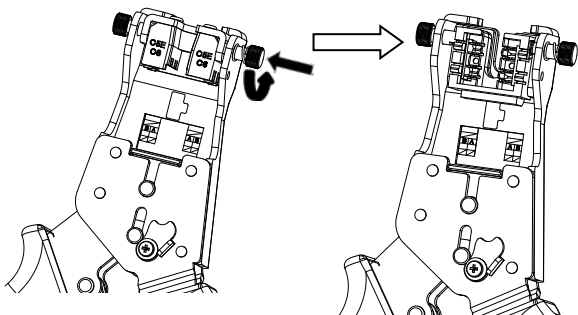


Fig-6

5.2.1 Place the prepared cable end in the slot of the Termination Head. (Fig. 7)

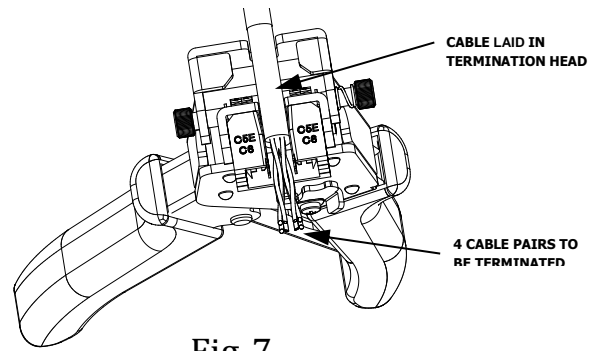


Fig-7

5.2.2. Untwist and lace wires into its respective comb groove in the Termination Head

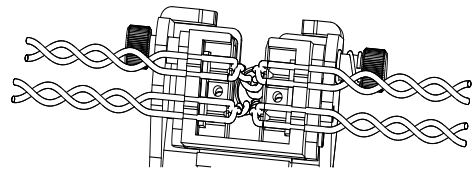


Fig-8

Notes:

1. Individual wires must be completely straightened inside the Lacing head.(Fig. 8)
2. Wires on side of the lacing head can remain twisted
3. There are color code labels on the inside of the tool frame for reference (Fig. 9)

Jack Wiring Schematic

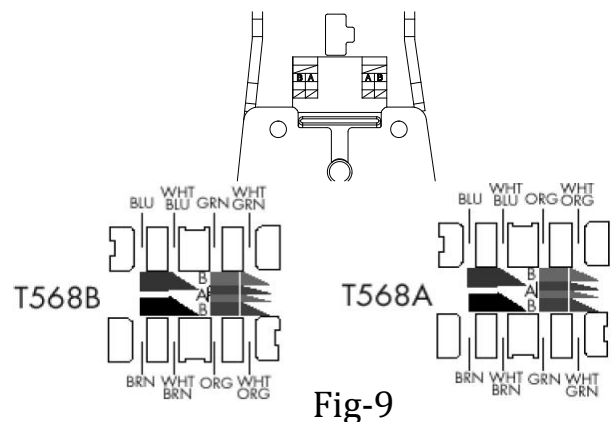


Fig-9

5.2.3 After all wires have been laced in the Termination Head, place the jack over the Wires See Fig. 10.

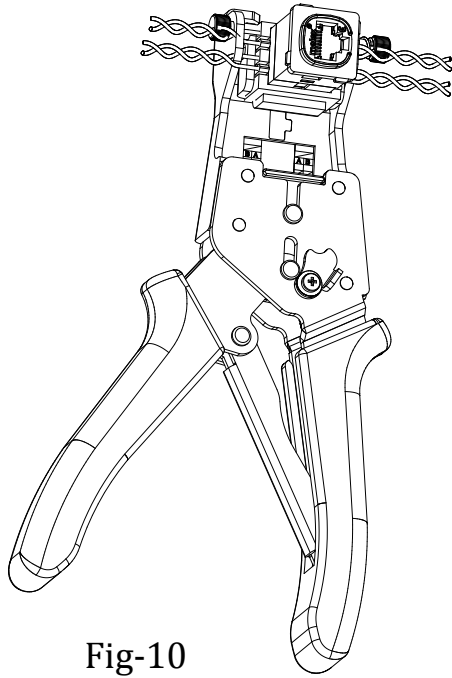


Fig-10

5.2.4 While holding the jack against the wires push the Termination Head to the left and pivot it 90° into the tool. Start to close the tool handles (Fig.11) Fully.

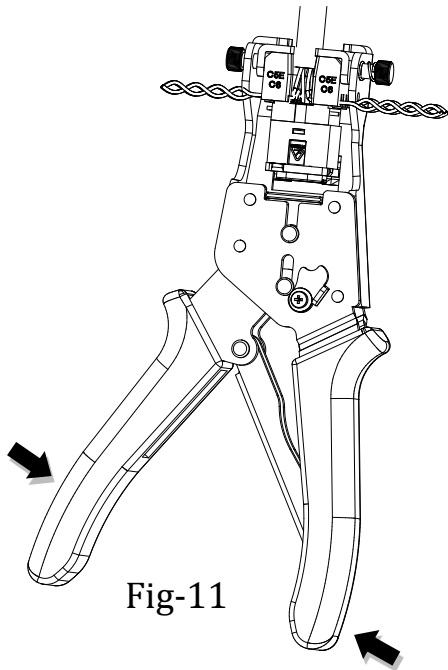


Fig-11

NOTE: This tool does not have a full-cycle ratchet action – it is important for the operator to fully close the tool.

5.2.5 Release the tool handles to open the tool. The jack will remain in the Termination Head.

5.2.6 Remove the terminated jack by pivoting the Wire Termination Head 90° and pulling the jack out of the wire comb.

5.2.7 Visually inspect the terminated jack for proper wire termination. The wires must be cleanly cut and fully seated to the bottom of the slots in the jack. Fig.12.

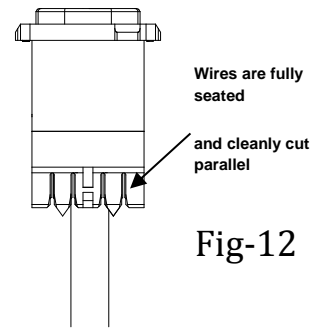


Fig-12

5.2.8 Fit cable strain relief stuffer cap (Fig 13)

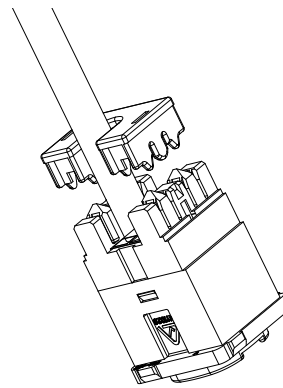


Fig-13

6. MAINTENANCE

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

1. Remove dust, moisture, and other contaminants with a clean brush, or soft, lint free cloth.
2. Do not use any abrasive materials that could damage the tool.
3. Make certain all pins, pivot points, and bearing surfaces are protected with a thin coat of high machine oil. Do not oil excessively. The tool is engineered for durability but like any other equipment it needs cleaning and lubrication for a maximum service life of trouble free termination.
4. Use light oil (30 weight automotive oil), at all the oil points, every 5,000 terminations or every 3months. This will significantly enhance the tool life.(Fig.14)
5. Keep oil away from the Wire Lacing Head and color code labels. Oil transferred from the wire termination area may affect the electrical characteristics of the termination or cause color code labels to fall off.
6. When tool is not in use, keep the handles closed and store the tool in a clean, dry area

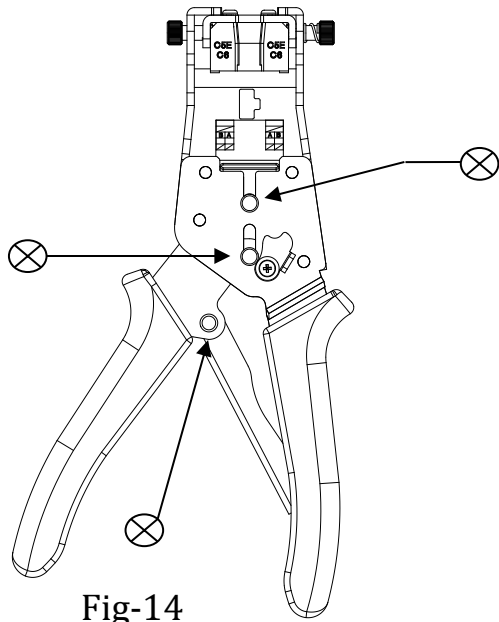


Fig-14

⊗ Lubrication points (both sides) light oil every 3 months or 5,000 crimps.

7. CAUTIONS

1. Repetitive and prolonged use of this tool can result in repetitive strain to the user. This tool is intended for standard Structured Cabling installation use and not high volume OEM factory production. The insulated rubber handles featured on this tool are not protection against electrical shock.
2. This tool is intended for use on Molex UTP MOD-Clip jacks only as specified above.
3. This tool is qualified to insert and cut off wires on the jacks as described above.
4. When the tool is no longer capable of fully inserting and cutting the cable, the termination head should be replaced. See replacement part no's above.
5. This tool is not designed to be disassembled. Customer repair is not recommended and is not covered by the warranty