

### 1. Introduction

The On-Q/Legrand High Performance Modular Plug Hand Tool, PN 364406-01 (see **Figure 1**), is used to crimp RJ45 plugs, PN 364405-01, to category UTP cable. The tool comes with interchangeable die sets and can be used for other terminations using Paladin Tool die sets.

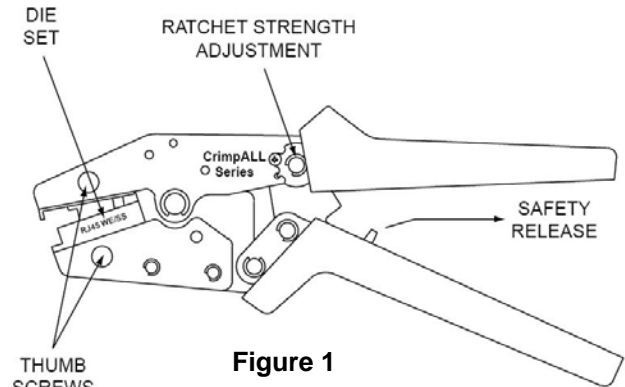


Figure 1

### 2. Crimping a Cable Assembly

- a. If not already installed, install the required die set in the crimp tool by removing the thumb screws located in the jaws. Install the die set with the text facing outward when crimper is in position shown in **Figure 1**.
- b. Install the thumb screws and tighten to maximum thumb tightness.

**NOTE: Do not use pliers or tools to tighten screws - only hand tightening is necessary.**

- c. Assemble cable and connector as specified by the connector and cable manufacturers' instructions.
- d. Insert connector/cable assembly into the die set and squeeze the handles through a complete ratchet cycle.
- e. Crimp is complete.

### 3. Emergency Release

In the case of an emergency where a crimp cycle is stopped and the tool needs to be reopened, flip the safety trigger forward in the direction of the jaws to engage the release mechanism.

### 4. Ratchet Strength Adjustment

Remove the gear screw. Adjust gear +/- to desired force. Replace the screw.

### 5. Telephone Cable Assembly (see **Figure 2**)

- a. Strip approximately 1/2" of the outer insulation off the cable.
- b. Do not strip the insulation off the smaller internal wires and align the conductors.
- c. For round cable (twisted-pair), un-twist and align conductors in pairs based on color. Verify the wiring pin-out required for the system. Typically, pairing is either 1-to-1, or is paired for pins 1&2, 3&6, 4&5 and 7&8 (for EIA standard). The equipment connecting to the cable determines the wiring pin-out (see **Figure 3**).

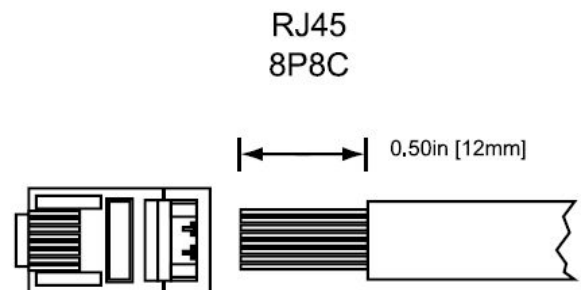
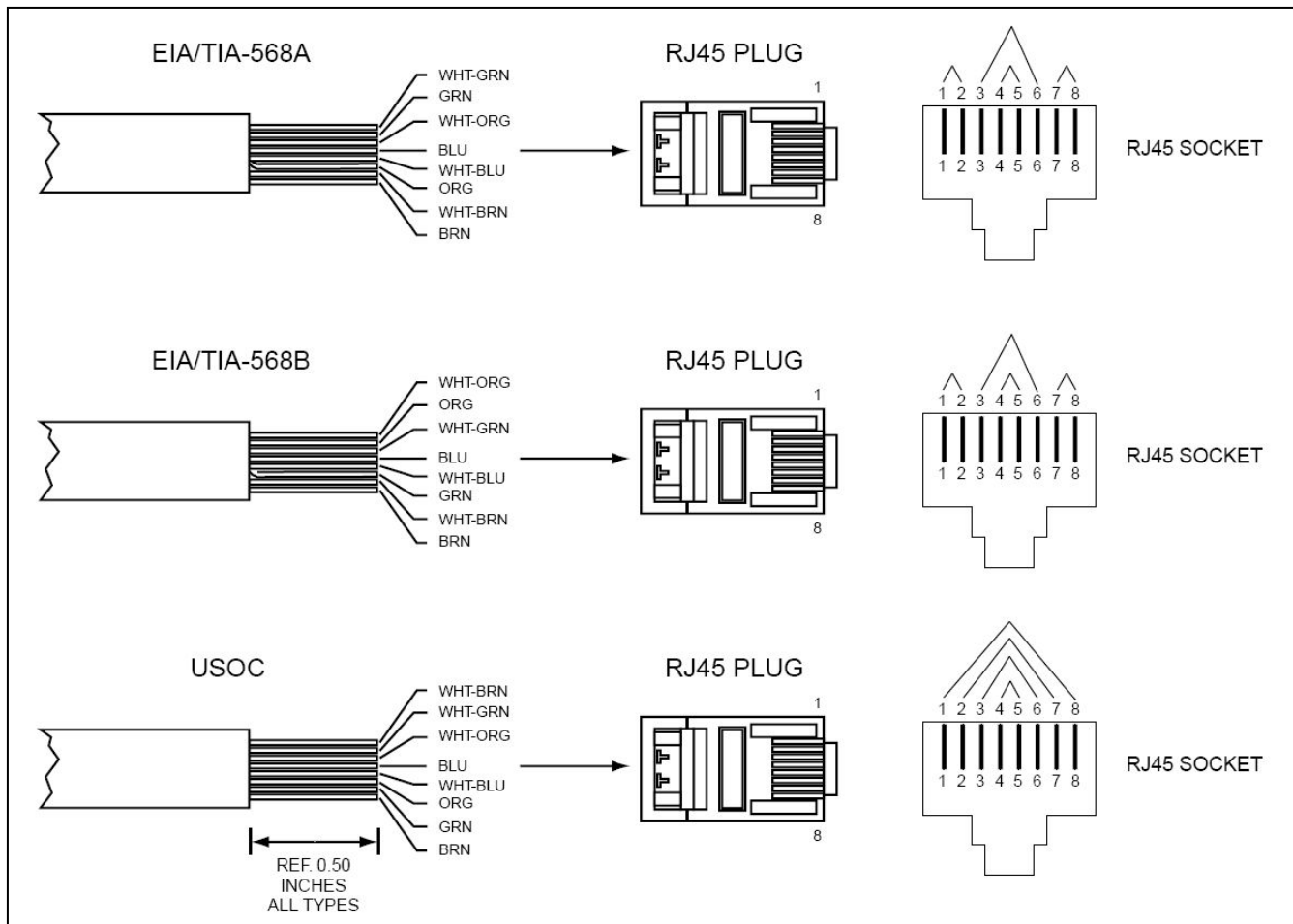


Figure 2

**NOTE: On-Q products are designed to the EIA/TIA-568A standard**

- d. When the wires are arranged for the correct pin-out, slide the wires into the connector. Make sure the wire ends are butting against the front edge of the connector.
- e. Install the cable/connector assembly into the crimp tool. Crimp the connector to force the pins into the wires and to engage the strain relief on the cable.

**NOTE: For other terminations, be certain to select proper connector and die set for cable and application.**



**Figure 3**