

TOOL			CONTACT SIZE
PART NUMBER	INSERTION TIP COLOR	EXTRACTION TIP COLOR	
1643914-1	N/A	Red	8
1643915-1	Yellow	White	12
1643916-1	Blue	White	16
1643917-1	Red	White	20
1643921-1	N/A	Light Yellow	0
1643922-1	N/A	Blue	4

Figure 1

## 1. INTRODUCTION

Insertion/Extraction Tools are designed to remove Drawer and Domino Series crimp type and threaded contacts from connectors. Each tool is color coded for the purpose of the tool and the size of the contact. See Figure 1. Read these instructions carefully before inserted or removing any contacts.

## 2. DESCRIPTION

The tool consists of a plastic handle, and two plastic insertion tips each with a slot. When properly inserted into the connector contact cavity, the tool tip fits between the contact wire barrel and the connector retention clips, and supports the wire to allow the contact to be inserted into or removed from the connector.

## 3. USING THE TOOL (Figure 2)



*To prevent possibility of injury, always hold the tool handle when inserting or removing contacts. Do NOT hold tool with unused tip against the palm of your hand.*

### 3.1. Insertion

1. Slide the contact wire barrel into the end of the tool tip until the tip butts against the shoulder of the contact.

2. Place the wire over the slot in the tool tip. Apply light pressure on the wire until the tip spreads and allows the wire to enter the tip.
3. Align the contact and tool tip with the desired connector contact cavity.
4. Hold the wire against the serrations in the tool handle, and push the tool straight into the contact cavity until the contact bottoms.
5. Remove the tool from the contact. Pull back lightly on the wire to make sure that the contact is secure in the cavity.

### 3.2. Extraction

1. Align the tool tip with the desired connector contact cavity.
2. Gently push the tool tip straight into the contact cavity and over the contact wire barrel until it butts against the shoulder of the contact.
3. Place the wire over the slot in the tool tip. Apply light pressure on the wire until the tool tip spreads and allows the wire to enter the tip.
4. Hold the wire against the serrations in the tool handle, and gently pull back. Tool 1643914-1, 1643921-1, and 1643922-1 do not have serrations.



*Do NOT use excessive force when removing contacts. If you experience difficulty in removing the contact, re-insert the tool tip, making sure that the tip is properly positioned in the cavity, and try again.*

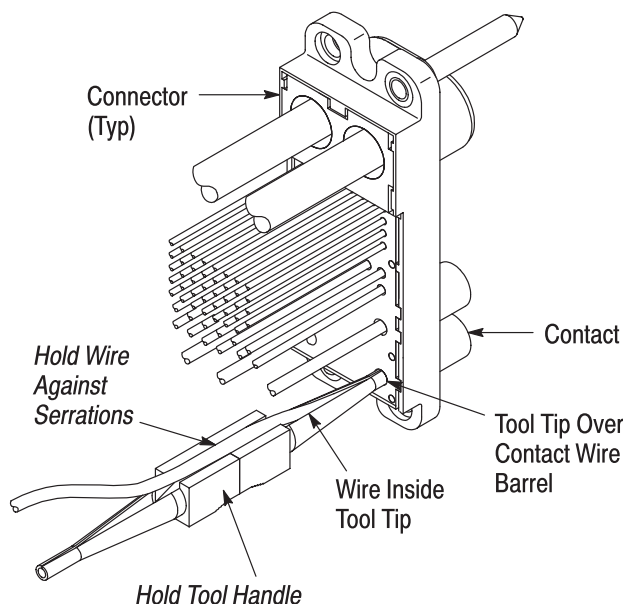


Figure 2

#### 4. TOOL MAINTENANCE

It is recommended that the tool be inspected when you receive it and at regularly scheduled intervals. The tool is not repairable and should be replaced when it is worn or damaged. Store the tool in a clean, dry place and clean the tool with a soft, lint-free cloth.

Additional tools can be purchased from:

CUSTOMER SERVICE (38-35)  
TYCO ELECTRONICS CORPORATION  
PO BOX 3608  
HARRISBURG PA 17105-3608

#### 5. REVISION SUMMARY

- Initial release of instruction sheet