

HARWIN

IDC TERMINATION HAND TOOL



Factory Set Crimp Tool Part Numbers:

Female Crimp Tool Z50-020
Male Crimp Tool Z50-030

Important Note:

Both tools will crimp Male & Female connectors, but must be set to the appropriate crimp settings as shown on sheet 3.

This IDC Termination Hand Tool has been designed for use with the following IDC connectors:

M50-330XX42.....1.27mm Pitch IDC Connector, Female (Crimped with Z50-020)
M50-380XX421.27mm Pitch IDC Connector, Male (Crimped with Z50-030)

XX = up to 25 contacts per row.

Harwin North America

T: +1 603 893 5376 F: +1 603 893 5396
E: misboston@harwin.com W: www.harwin.com
IS-43 Issue: 2 Date: 12.06.2017 C/Note: 20656

Harwin Europe

T: +44 (0) 23 9231 4545 F: +44 (0) 23 9231 4590
E: mis@harwin.co.uk W: www.harwin.com

Harwin Asia

T: +65 6 779 4909 F: +65 6 779 3868
E: mis@harwin.com.sg W: www.harwin.com.sg
Page 1 of 5

GENERAL INFORMATION

The Z50-020 IDC Termination Hand Tool is used to ensure the complete and secure assembly of IDC connectors. The tool uses a ratchet mechanism and press plate to assemble the connector onto the ribbon cable. The tool is also supplied with a desk clamp, for secure fastening during operation.

The connector is fully assembled once the tool is free to open fully to its original position, i.e. when the ratchet releases. The ratchet releases once the handles have been compressed to the fully closed position.

ASSEMBLY PROCEDURE

Clamp

Tool



Hook the clamp onto the undercarriage of the tool.



Tighten the clamp onto the designated desk.

1. Decide whether you will clamp the tool to the desk or use the tool in hand. If clamping the tool to a desk, make sure the tool is securely fastened before use.
2. Select a suitable ribbon cable for the connector.

Harwin recommends:

Wire Type = UL2678

Wire Pitch = 0.635mm

Wire Thickness = 30AWG

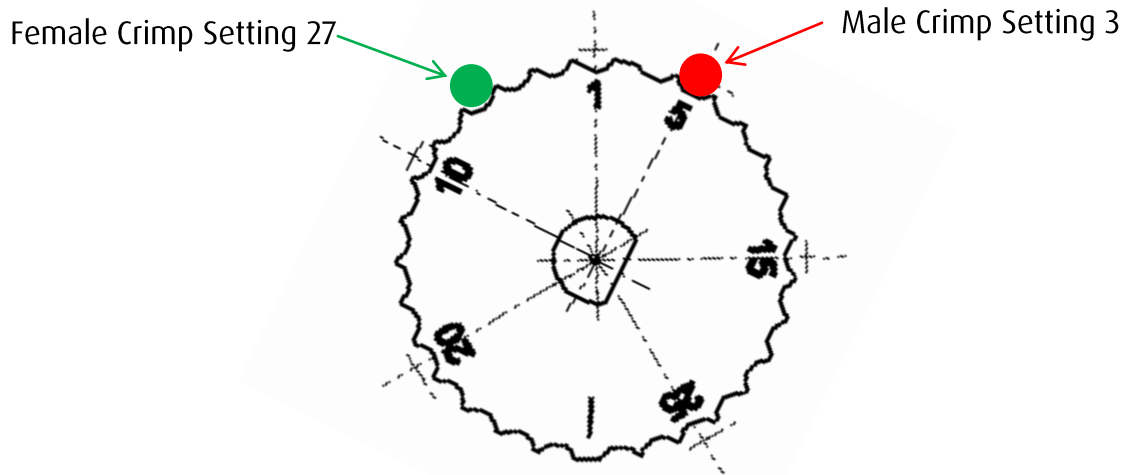
3. Ensure that the crimp tool is on the correct tool setting, depending on which component you are crimping. Female is setting 27 & Male is setting 3 (Mark 5). The settings are counted from the number 1 mark going around the dial clockwise.



Female Crimp Setting



Male Crimp Setting



4. Feed the cable into the back of the connector, ensuring it is the correct width and cut to the desired length.
5. Make certain that the termination hand tool is in the fully open position, and that the jaws are free from dirt and debris.
6. Feed the cable through the slot and securely place the connector within the locating feature (Female) or flush against the stop washer situated to the right of the tool (Male). See figures 1, 2 & 3.

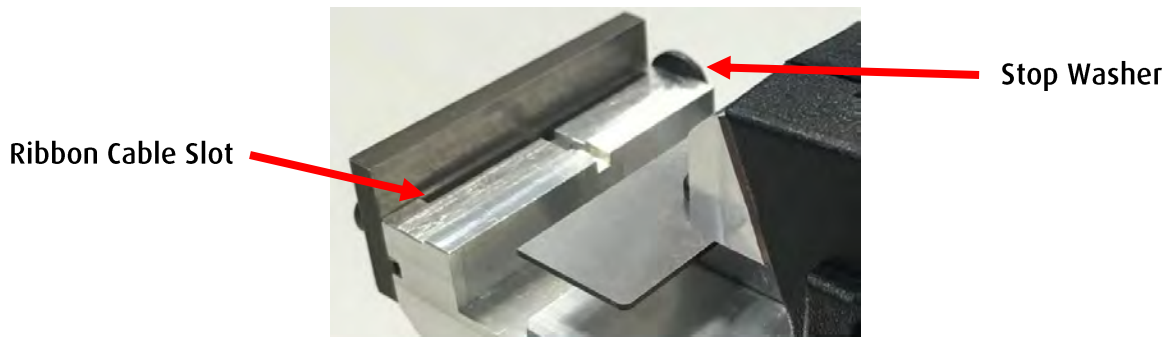


Figure 1:
Empty Tool Jaws

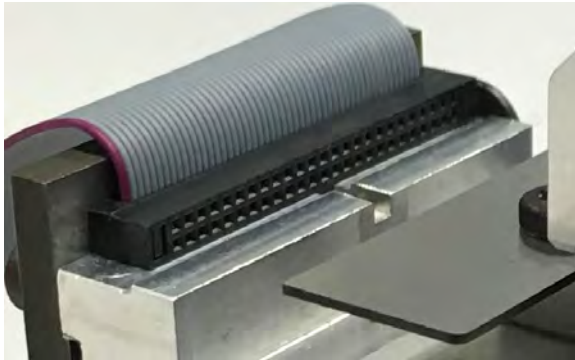


Figure 2:
Female Connector Position



Figure 3:
Male Connector Position

7. Once the connector is in the correct position and secure, slowly compress the handle until the connector is fully shut and the ratchet within the tool has released.



Figure 4



Figure 5

8. If assembling a second connector to the cable, it is not recommended to feed the wire through the slot. Instead, assemble the cable into the connector from above. This way, you will be able to terminate the connector, and still be able to remove the finished assembly from the tool. Please see figures 4 & 5 below as examples.

TOOL MAINTENANCE

1. Keep the tool clean and free from dirt and foreign matter. Ensure that all pins and clips are in place before use, and that signs of wear are not visible. If the pivots are worn, the tool must be replaced, or integrity of assembly will be compromised.
2. Oil at all pivots and bearings using light cycle oil.
3. At regular intervals, check the assembly tool jaws for wear or damage, and inspect sample connector assemblies for form and function.