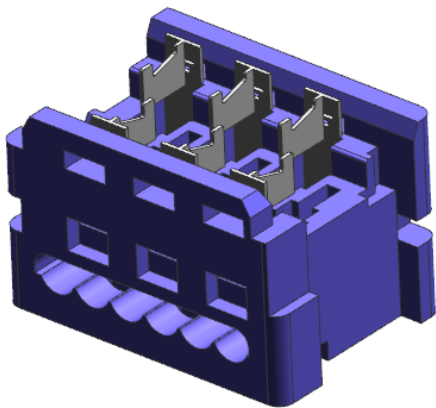
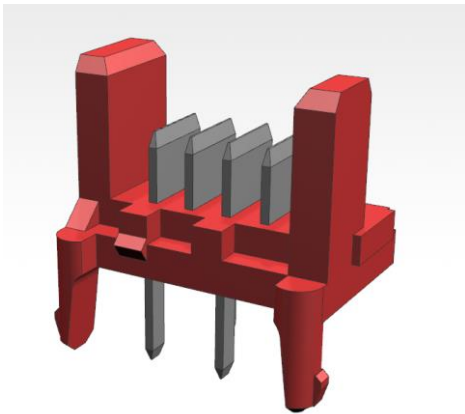


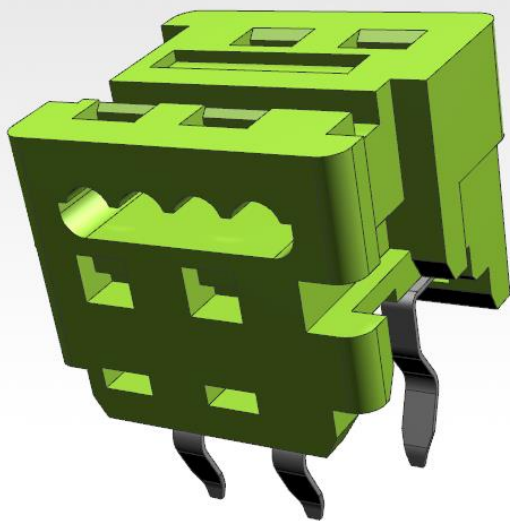
PICOFLEX
RIBBON CABLE
CONNECTOR SYSTEM



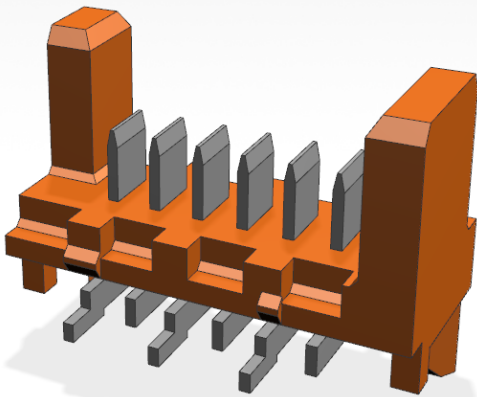
90327-IDT RECEPTACLE



90325 - HEADER THROUGH-HOLE
VERTICAL

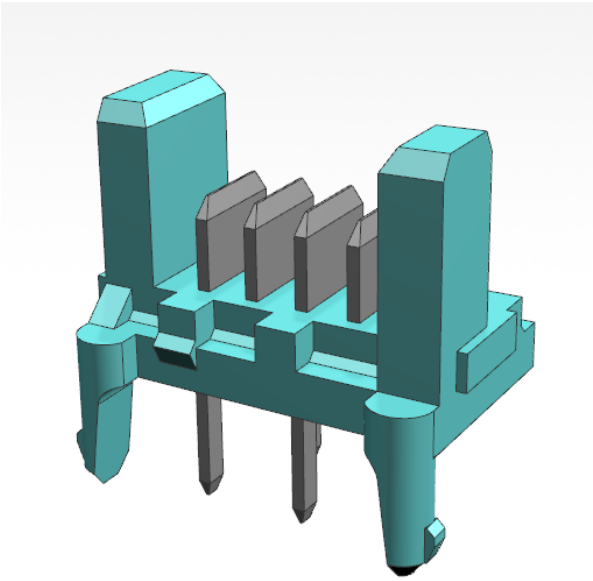


90584 - IDT RECEPTACLE HOUSING
BOARD-IN

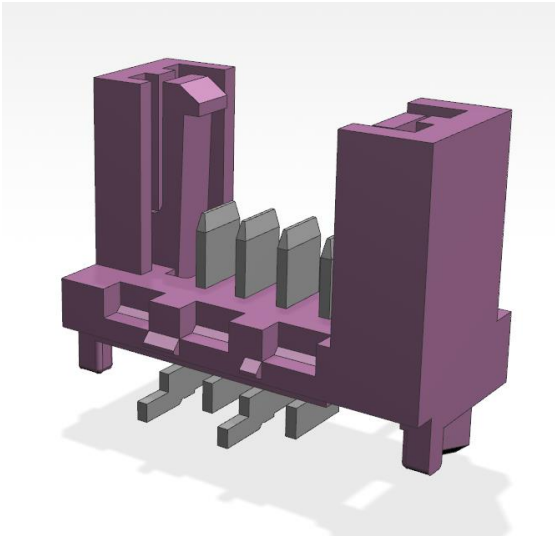


90814 - HEADER SMT VERTICAL

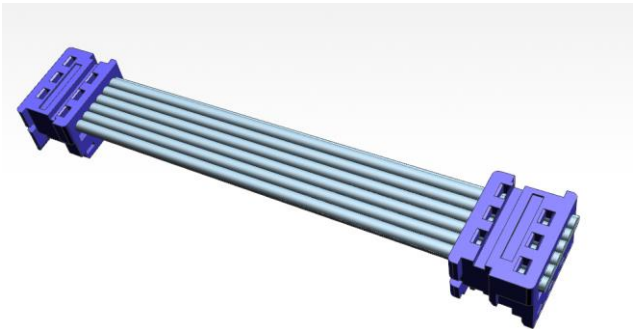
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90779 - HEADER THROUGH-HOLE
HIGH TEMPERATURE



90816 - HEADER SMT VERTICAL
WITH LATCH



92315 - STANDARD JUMPER

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1.0 SCOPE

This Application Specification covers the application and end-usage requirements for the Picoflex Ribbon-Cable Connectors, the compact, versatile Molex 1.27mm Picoflex IDT Connector System is designed for high-density power and signal ribbon cable applications and provides a highly reliable terminal design with locking and cable-strain relief features for a secure electrical connection in applications with high vibrations and intense shock requirements. It uses Molex IDT technology.

2.0 PRODUCT DESCRIPTION**2.1 NAMES AND SERIES NUMBER(S)**

Description	Series Number
IDT RECEPTACLE	90327
IDT RECEPTACLE HOUSING BOARD-IN	90584
HEADER STANDARD THROUGH-HOLE VERTICAL	90325
HEADER THROUGH-HOLE HIGH TEMPERATURE	90779
HEADER SMT VERTICAL	90814
HEADER SMT VERTICAL WITH LATCH	90816
STANDARD JUMPER	92315

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

See the appropriate sales drawings for the information on dimensions, materials, plating and markings.

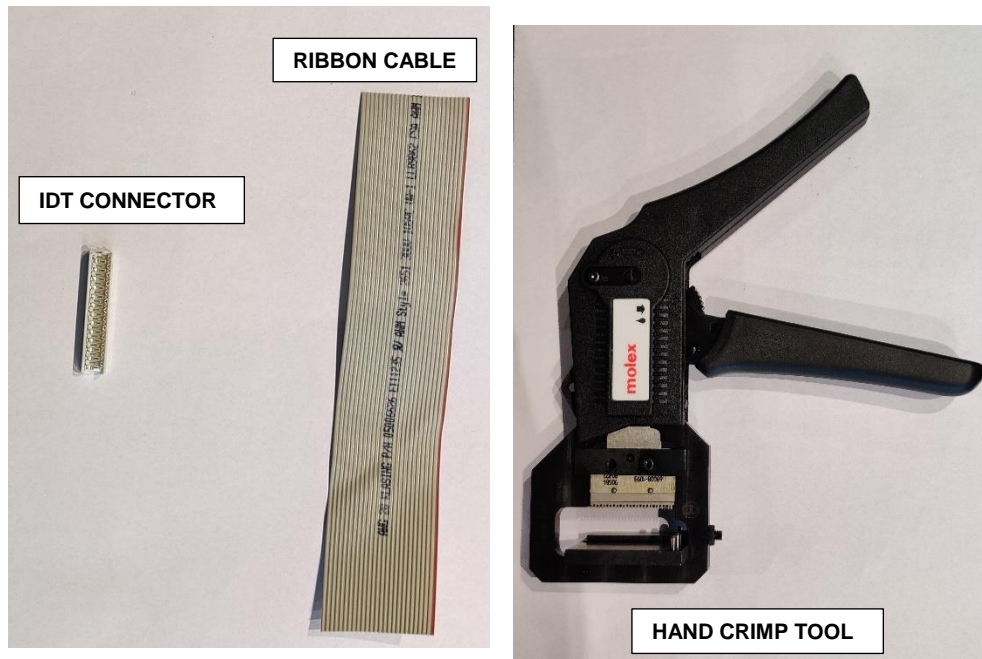
2.3 APPLICABLE DOCUMENTS AND SPECIFICATIONS

PRODUCT SPECIFICATION.....	PS-99020-0011
IDT RECEPTACLE ASSEMBLY SALES DRAWING.....	SDA-90327-001
IDT RECEPTACLE HOUSING BOARD-IN ASSEMBLY SALES DRAWING.....	SDA-90584-001
HEADER THROUGH-HOLE HIGH TEMPERATURE SALES DRAWING.....	SDA-90779-001
HEADER STANDARD THROUGH-HOLE VERTICAL SALES DRAWING.....	SDA-90325-001
HEADER SMT VERTICAL SALES DRAWING.....	SDA-90814-001
HEADER SMT VERTICAL WITH LATCH SALES DRAWING.....	SD-90816-001
STANDARD JUMPER SALES DRAWING.....	SD-92315-001
TEST SUMMARY.....	TS-90816-001
IDT RECEPTACLE ASSEMBLY PACKAGING SPECIFICATION.....	PK-90327-001
IDT RECEPTACLE HOUSING BOARD-IN ASSEMBLY PACKAGING SPECIFICATION	PK-90584-001
HEADER THROUGH-HOLE HIGH TEMPERATURE PACKAGING SPECIFICATION.....	PK-90325-002
HEADER STANDARD THROUGH-HOLE VERTICAL PACKAGING SPECIFICATION	PK-90325-002
HEADER SMT VERTICAL WITH LATCH PACKAGING SPECIFICATION	PK-90816-001
EXTRACTION TOOL SPECIFICATION.....	690081070
EXTRACTOR TOOL FOR CONNECTORS.....	621006000

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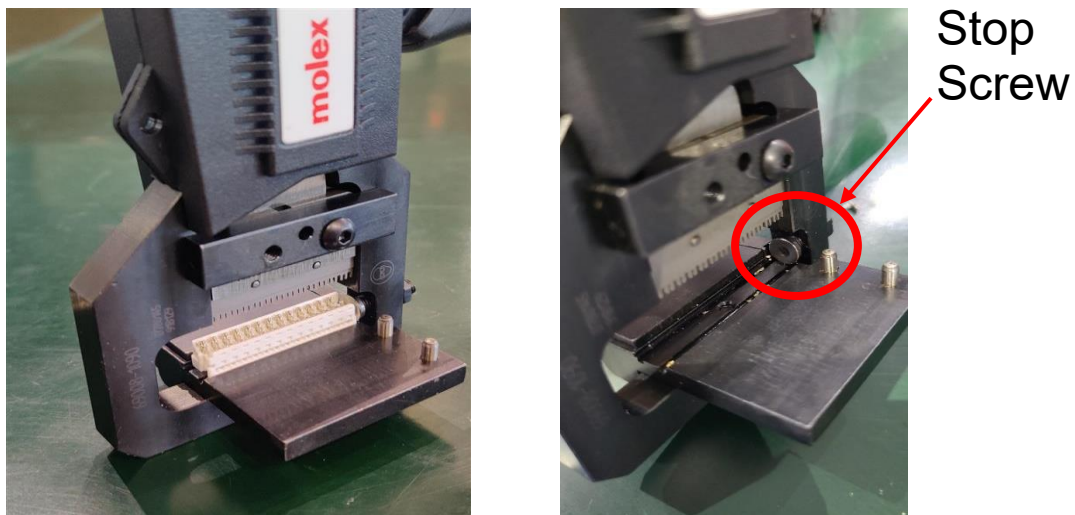
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3.0 PICOFLEX IDT TERMINATION PROCEDURE



3.1 TERMINAL ORIENTATION DURING INSERTION INTO HOUSING

- **STEP-1: Slide the connector into the track and push until it stops against the stop screw.**



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- **STEP-2:** With the connector seated in track correctly, proceed to insert the cable and squeeze the tool handles together until the full cycle ratchet releases. the tool must travel 2.1mm – 2.2 mm after it makes contact with top surface of the terminal.



Before Termination

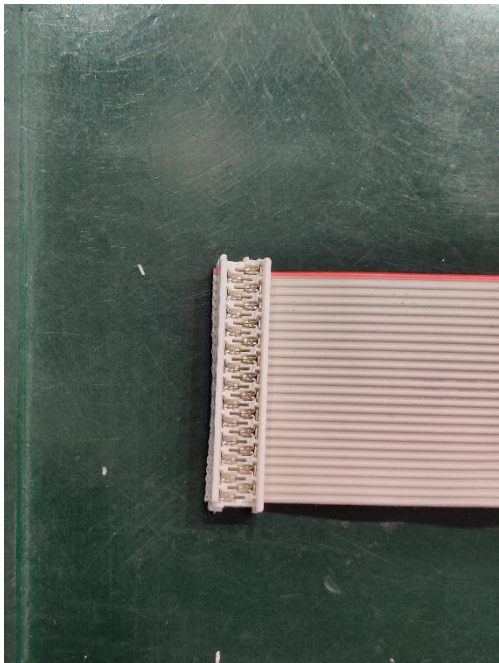
After Termination

- **STEP-3:** Release the tool handles and let the tool open completely.



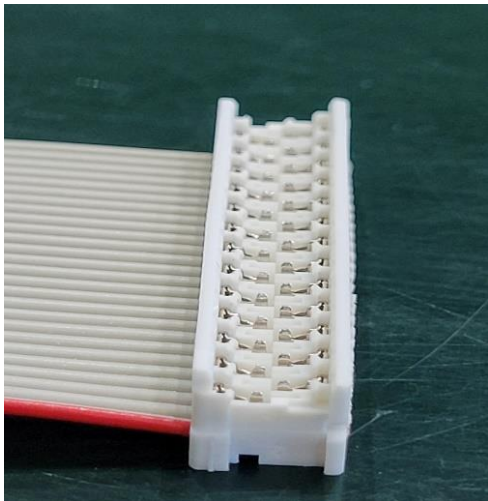
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- STEP-4: Remove the terminated connector from the nest.



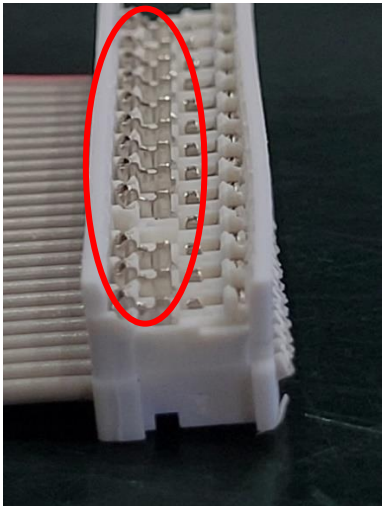
3.2 TERMINATION EXAMPLES

Terminal Fully seated



✓
CORRECT

Terminal Not Fully seated

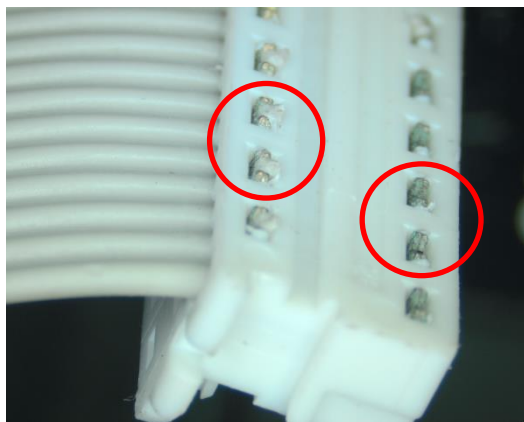


✗
INCORRECT

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3.3 VISUAL VERIFICATION FOR GOOD TERMINATION

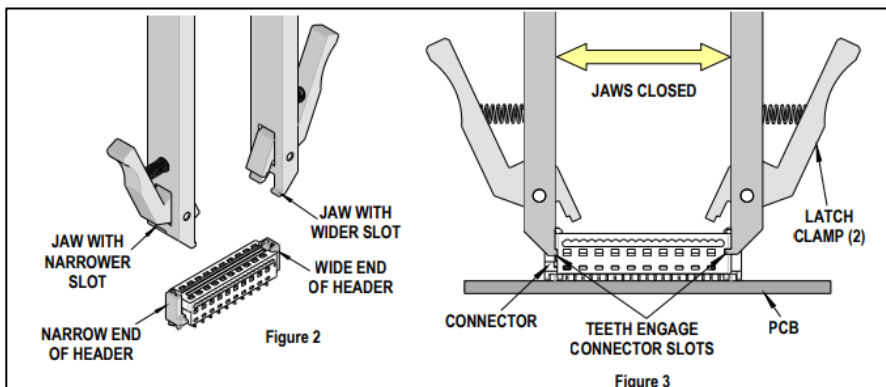
- When viewed as shown below, the terminal will be partially visible through this window, which indicates that the termination has occurred in the right way



4.0 EXTRACTION TOOL FOR PICOFLEX

4.1 EXTRACTION TOOL FOR 90327

1. Open the tool slightly wider than the connector width.
2. Position the tool over the header. The header has a narrow end wall and a wider end wall. The tool has matching narrow and wide slots in the jaws. See Figure 2.
3. Close the tool jaws on the connector. Make sure the teeth in the jaws engage the slot on the connector. See Figure 3.



4. While keeping the jaws closed on the connector, squeeze the latch clamps until they stop against the sides of the tool jaws. This releases the header latches so the connector can be removed without latch damage. See Figure 3.
5. Holding the tool closed by the latch clamps, pull the tool straight up to remove the connector from the header. Damage may occur to the header or connector if it is extracted at an angle.

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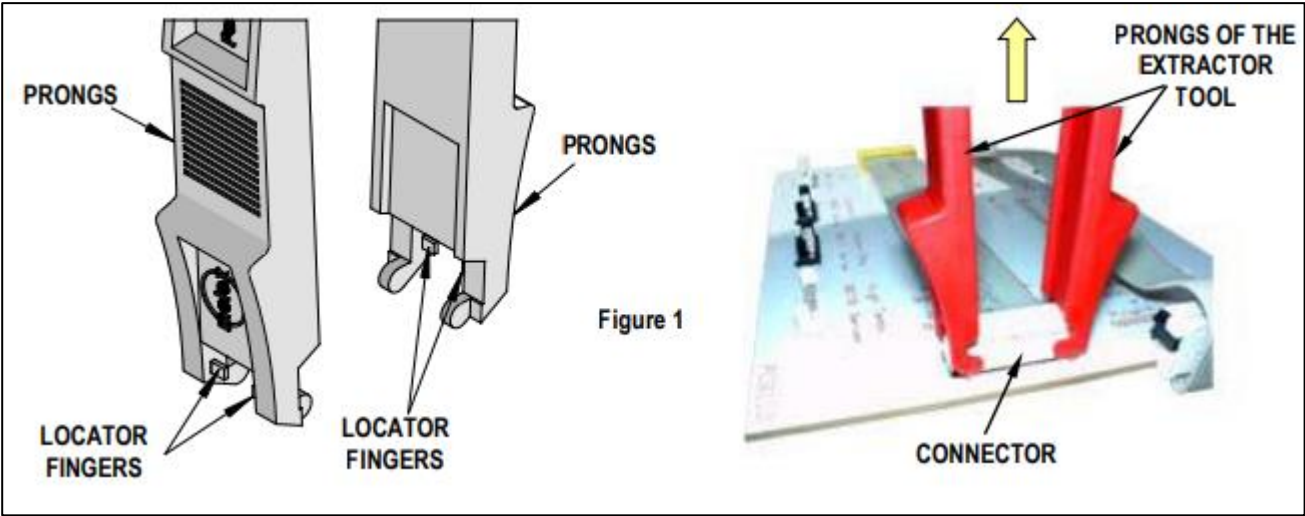
4.2 EXTRACTION TOOL FOR 90327 & 90814

1. Hold the extractor tool between the thumb and index finger

2. Push the tool together so the prongs are far enough apart to fit over the connector that is being extracted.

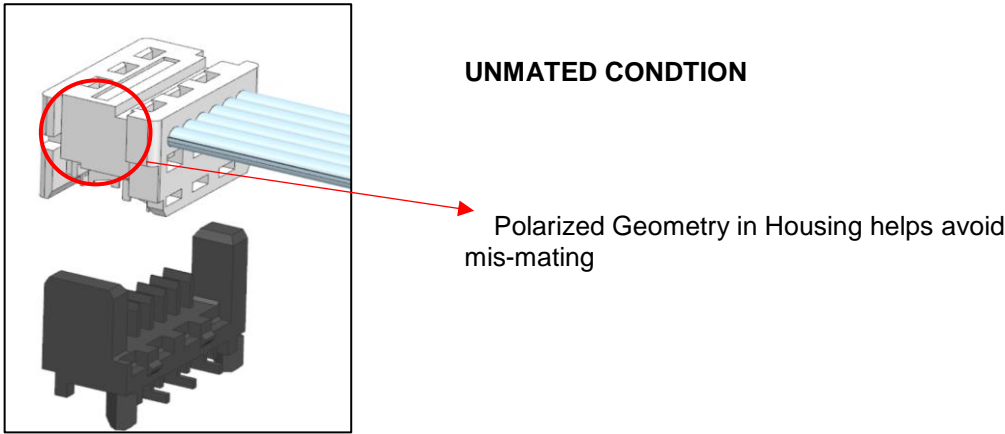
3. Squeeze the prongs together until the locator fingers are in the slots of the connector end walls. See Figure 1.

4. While keeping the extractor tool engaged with the connector, gently pull the connector straight up from the header. Damage may occur to the header or connector if it is extracted at an angle.

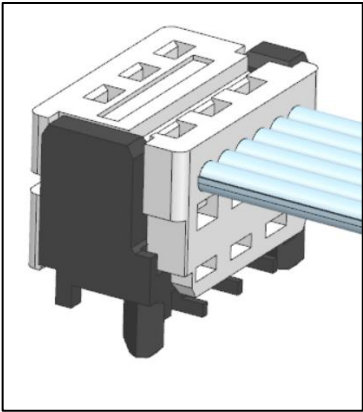


5. Molex does not offer repair parts for Extractor Tools due to the inexpensive nature of these tools.

5.0 MATING AND UNMATING DETAILS



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MATED CONDTION

Caution: Carefully mate the Header and the Receptacle IDT connector to prevent injuries to the user.

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage. No Styrofoam shall be used in any packing that comes in direct contact with the connectors

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