

# **MX150L ASSEMBLY INSTRUCTIONS**

### CONNECTOR PLUG ASSEMBLY

#### TERMINAL INSERTION

- 1. Begin assembly of the crimped male terminals into the plug housing by making sure the Terminal Position Assurance feature (TPA) is in the pre-locked position (See Figure 1).
  - Since the TPA is recessed in housing, the most accurate way to determine if it is in pre-lock position is to measure. In pre-locked position, the dimension between plug housing face and TPA is approximately 0.500" (12,7mm).
  - If it is not in pre-locked position, insert the tips of a pair of needle nose pliers into the two "D" shaped holes in the center of the TPA. Carefully, pull gently on the TPA until it starts moving. Pull to first stop. CAUTION: DO NOT PULL TPA COMPLETELY OUT OF HOUSING. THIS MAY BREAK RETENTION FEATURES AND RESULT IN REDUCED TPA RETENTION IN HOUSING. You are now ready to insert terminals and/or circuit plugs.



2. The terminal must be positioned correctly when inserted into the housing to assure proper latching and retention. Orient the key on the back of the male terminal with the keyway on the rear of the housing (See Figure 2). Insert the terminal into the housing until it clicks and a slight pull back on the wire is met with resistance from terminal retention feature.

	Keyway in Wire Entry Keyway on Terminal Figure 2: Terminal Orientation								
<b>REVISION:</b>	ECR/ECN INFORMATION:	TITLE: ASSEMBL	Y INSTRUCTIONS	S FOR	SHEET No.				
В	EC No: IPG2013-0274	MX150L SEALED CONNECTOR							
D	<u>DATE:</u> 2012 / 08 / 22		<b>1</b> of <b>5</b>						
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	APPROV	ED BY:				
AS-19417-001		WLEUNG	EUNG DTITUS DTIT		US				
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC									





CONNECTOR RECEPTACLE ASSEMBLY

#### TERMINAL INSERTION

ne company a world of innovation

- 1. Begin assembly of the crimped female terminals into the receptacle housing by making sure the Terminal Position Assurance feature (TPA) is in the pre-locked position (See Figure 6).
  - In pre-locked position, the dimension between receptacle housing face and TPA is approximately 0.160" (4,06mm).
  - If it is not in the pre-locked position, insert the blade of a screwdriver into the slots in the TPA found adjacent or opposite to the latch. Apply slight pressure and pry the TPA out until it clicks (See Figure 7). You are now ready to insert terminals and/or circuit plugs.



2. The terminal must be positioned correctly when inserted into the housing to assure proper latching and retention. Orient the key on the back of the female terminal with the keyway on the wire entry cavity in the rear of the housing (See Figure 8). Insert the terminal into the housing until it clicks and a slight pull back on the wire is met with resistance from terminal retention feature.

Keyway in Wire Entry Keyway on Terminal Figure 8: Terminal Orientation								
REVISION:	ECR/ECN INFORMATION:	TITLE: ASSEMBL	Y INSTRUCTIONS	S FOR	SHEET No.			
D	EC No: IPG2013-0274	MX150L SEALED CONNECTOR						
В	<u>DATE:</u> 2012 / 08 / 22		<b>3</b> of <b>5</b>					
DOCUMENT NUMBER:		CREATED / REVISED BY:	CHECKED BY:	<u>APPROV</u>	ED BY:			
AS-19417-001		WLEUNG	DTITUS	DTITUS				
TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC								



TEMPLATE FILENAME: PRODUCT\_SPEC[SIZE\_A](V.1).DOC



## CONNECTOR POSITION ASSURANCE ACTIVATION

molex<sup>®</sup> ne company > a world of innovation

1. After mating the plug and receptacle connectors, push the Connector Position Assurance feature (CPA) on the receptacle forward until it clicks or is as far forward towards mating end of receptacle as possible (See Figure 12). This will prevent accidental depression of latch and un-mating of connectors.

