

# Molex 30700-1080 PDF

深圳创唯电子有限公司

<http://www.molex-connect.com>

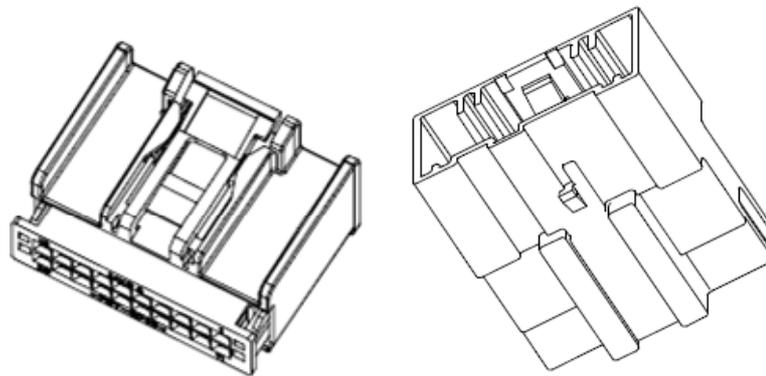


# APPLICATION SPECIFICATION

## HDAC DUAL ROW APPLICATION MANUAL

**1.0 SCOPE** THIS INSTRUCTION MANUAL CONTAINS SUPPLEMENTAL INFORMATION PERTAINING TO THE MOLEX HDAC DUAL ROW 0.64 SERIES 30700, AND 30968.

### **2.0 PRODUCT DESCRIPTION**



#### Table of Contents

- : Product Introduction
- : Product Summary
- : Connector Assembly
- : Connector Mating
- : Service Instructions

**3.0 REFERENCE DOCUMENTS** SD 30700-120, SD 30968-120, AND PS-30700-0001.

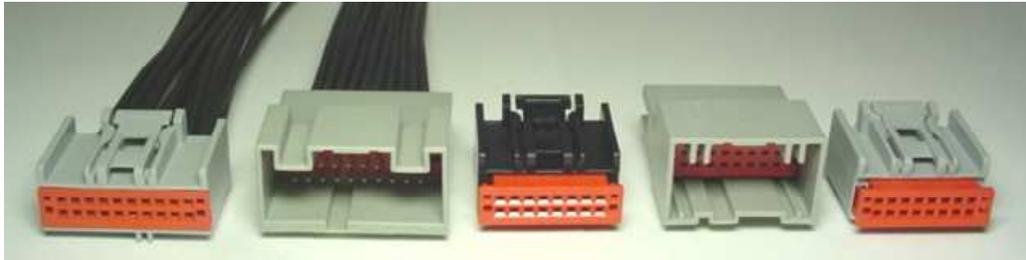
<u>REVISION:</u> <b>2</b>	<u>ECR/ECN INFORMATION:</u> EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	<u>TITLE:</u> <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	<u>SHEET No.</u> <b>1 of 8</b>
<u>DOCUMENT NUMBER:</u> <b>AS-30700-000</b>	<u>CREATED / REVISED BY:</u> <b>Chris Taylor</b>	<u>CHECKED BY:</u> <b>Matt Bailey</b>	<u>APPROVED BY:</u> <b>Mike Gonzalez</b>



# APPLICATION SPECIFICATION

## Product Introduction

### HDAC 0.64 Product Line



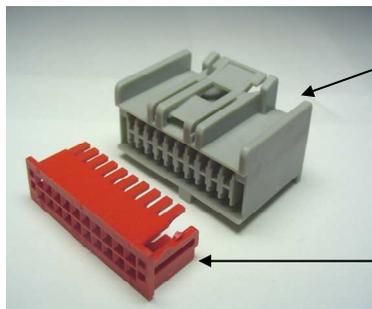
This instruction manual contains supplemental information pertaining to the Molex HDAC 0.64 Product Line. Please refer to Sales Drawing # SD 30700-120, or SD 30968-120 for all color, keyway, and terminal options. Additional information can be found in the Product Specification # 30700-0001

For product ordering information, please contact your Molex Inside Sales Representative at (800)786-6539.

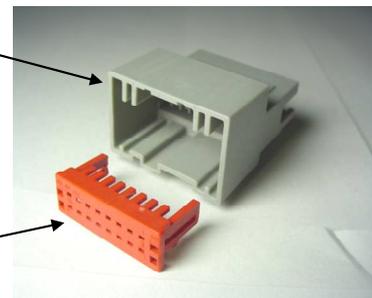
For electronic copies and future updates of this document, and the Connector Reference Manual, refer to the Molex Website at <http://www.molex.com>

## Product Summary

### A. Connector Assemblies



HDAC 0.64 Receptacle Connector



HDAC 0.64 Blade Connector

#### Features and Benefits

Circuit sizes 6 to 20 and a 24-way hybrid  
Scoop-proof housing  
Protect against accidental bending of pins

Provides high circuit density  
Protects against mis-mating

Three polarization options available and 3 different colors (gray, black and natural)  
Terminal Position Assurance (TPA) Provides increased final terminal retention  
Positive lock provides audible click during mating  
Ensures mated system is secured in high-vibration

REVISION: <b>2</b>	ECR/ECN INFORMATION: EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	TITLE: <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	SHEET No. <b>2 of 8</b>
DOCUMENT NUMBER: <b>AS-30700-000</b>	CREATED / REVISED BY: <b>Chris Taylor</b>	CHECKED BY: <b>Matt Bailey</b>	APPROVED BY: <b>Mike Gonzalez</b>



# APPLICATION SPECIFICATION

## Product Summary

- TYCO Blade Terminal
  - Base Material
    - ✓ Copper Alloy
  - Plating Options
    - ✓ Tin
  - Wire Sizes:
    - ✓ 18,20,22 AWG
  
- Molex GET Receptacle Terminal
- PN 34230 series
  - Base Material
    - ✓ Copper Alloy
  - Plating Options
    - ✓ Tin
  - Wire Sizes:
    - ✓ 18,20,22 AWG

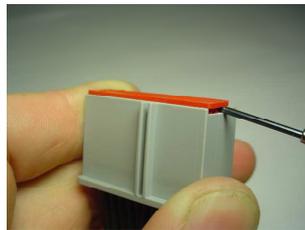


## Connector Assembly

A. Connectors shown in "As Shipped" Connector Position  
 TPA's shown in "as shipped" condition (pre-lock).  
 The TPA must remain in the pre-lock position until all circuits are loaded.



B. TPA "lift to pre-lock"  
 If during shipping the Connector TPA moves from it's pre-lock position. TPA must be in pre-lock position to populate the connector. Slide a small screwdriver under the edge of the TPA on one side. Using the blade of the screwdriver gently push TPA upwards. Repeat this on the opposite side, TPA will snap into pre-lock position.



<u>REVISION:</u> <b>2</b>	<u>ECR/ECN INFORMATION:</u> EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	<u>TITLE:</u> <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	<u>SHEET No.</u> <b>3 of 8</b>
<u>DOCUMENT NUMBER:</u> <b>AS-30700-000</b>	<u>CREATED / REVISED BY:</u> <b>Chris Taylor</b>	<u>CHECKED BY:</u> <b>Matt Bailey</b>	<u>APPROVED BY:</u> <b>Mike Gonzalez</b>

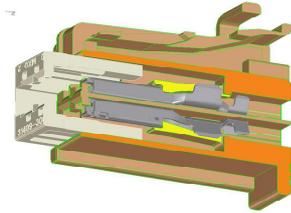
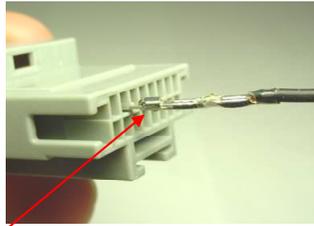
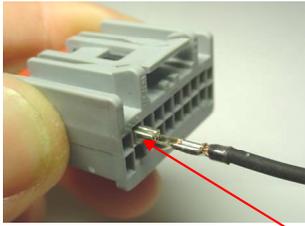


# APPLICATION SPECIFICATION

## Connector Assembly

### C. Terminal Installation:

With TPA still in pre-lock position, orient terminal to rear of connector as shown below. Grip the wire no less than 1.25 inches from the terminal insulation crimp and insert through appropriate circuit opening. If resistance is encountered, retract the terminal and adjust the angle of insertion. Continue inserting the terminal until it stops and locks up on the lock finger with an audible click.



Terminal orientation feature.

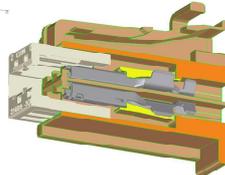
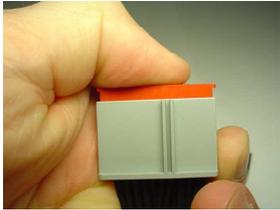
Correct Orientation

Correct Orientation

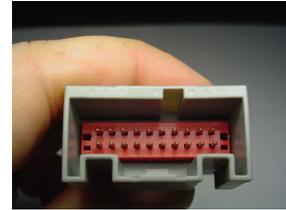
Cross section of proper installation

### D. Seating the TPA

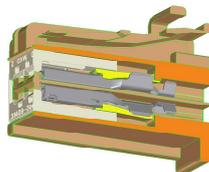
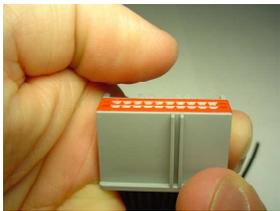
With the receptacle terminals fully installed, the TPA can be seated into its final lock position by applying an even force to the TPA surface until it comes to a stop, with an audible click. With the blade terminals fully installed, the TPA can be seated into its final lock position by applying an even force to the TPA surface until it comes to a stop, with an audible click.



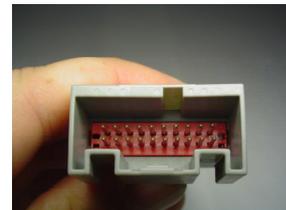
TPA in pre-lock



Push uniformly on TPA main surface only to fully seat – being careful not to touch the blade terminals. It is recommended that a non-metal tool is use to seat the TPA. This will limit the possibility of damaging the blade terminals.



TPA fully seated



<u>REVISION:</u> <b>2</b>	<u>ECR/ECN INFORMATION:</u> EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	<u>TITLE:</u> <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	<u>SHEET No.</u> <b>4 of 8</b>
<u>DOCUMENT NUMBER:</u> <b>AS-30700-000</b>	<u>CREATED / REVISED BY:</u> <b>Chris Taylor</b>	<u>CHECKED BY:</u> <b>Matt Bailey</b>	<u>APPROVED BY:</u> <b>Mike Gonzalez</b>

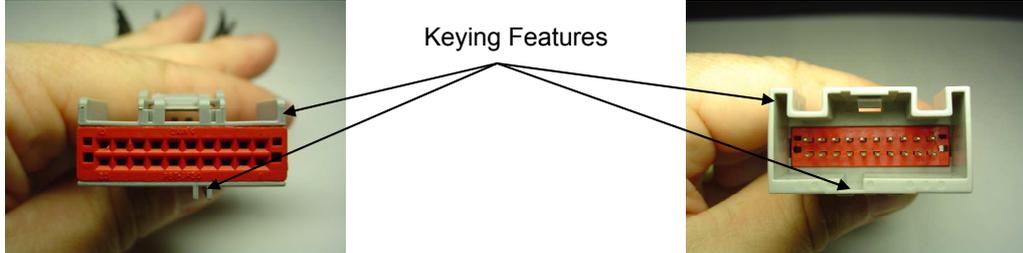


# APPLICATION SPECIFICATION

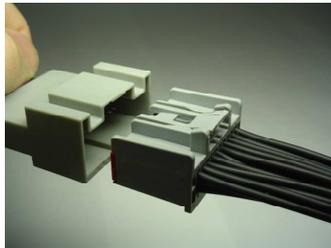
## Connector Mating

### A. Connector Mating

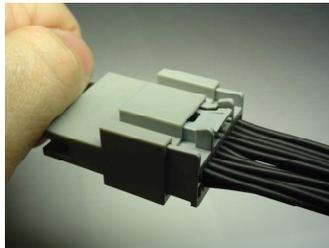
Note and align connector keying features, from receptacle connector to Mating header.



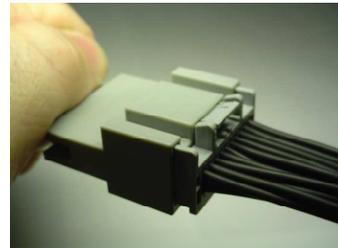
B. Begin mating procedure by sliding the receptacle connector assembly into the header assembly, press firmly until you hear an audible click.



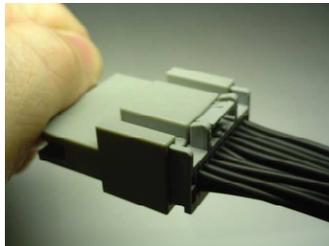
**ALIGN**



**PUSH**



**CLICK**



**PULL**

<u>REVISION:</u> <b>2</b>	<u>ECR/ECN INFORMATION:</u> EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	<u>TITLE:</u> <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	<u>SHEET No.</u> <b>5 of 8</b>
<u>DOCUMENT NUMBER:</u> <b>AS-30700-000</b>	<u>CREATED / REVISED BY:</u> <b>Chris Taylor</b>	<u>CHECKED BY:</u> <b>Matt Bailey</b>	<u>APPROVED BY:</u> <b>Mike Gonzalez</b>

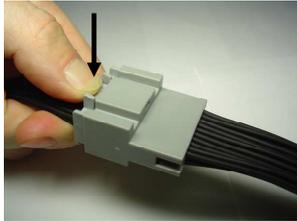


# APPLICATION SPECIFICATION

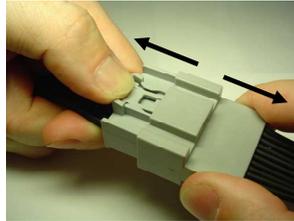
## Service Instructions

### A. Un-mate procedure

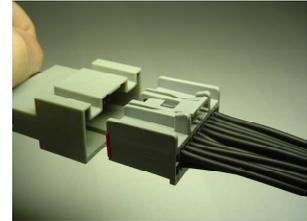
To un-mate the connectors, push connector together to unload the latch system. Then depress the latch with your thumb (step1). Continue to depress the latch, and gently pull apart connector assemblies (step2).



Step 1

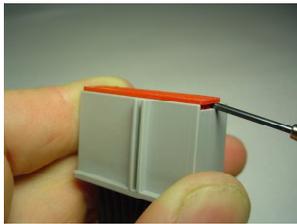


Step 2

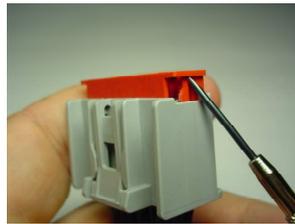


### B. TPA Servicing Receptacle

Step 1: Insert a small screwdriver, or service tool (max width = 2.0 mm) into the designated pry point. Step 2: Using the housing as a pivot point gently push out on the TPA until it is removed from the connector housing. **Excessive force may damage the TPA! If TPA is damaged, Do Not Reuse!**



Step 1



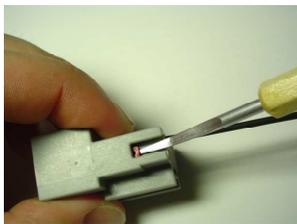
Step 2



Un-damaged TPA after removal

### C. TPA servicing the Blade connector

Step 1: Insert a small screwdriver into the two small extraction holes. Step 2: Push on opposite sides of the TPA latch until it is removed from the connector housing. **Excessive force may damage the TPA! If TPA is damaged, Do Not Reuse!**



Step 1



Step 2



Un-damaged TPA after removal

REVISION: <b>2</b>	ECR/ECN INFORMATION: EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	TITLE: <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	SHEET No. <b>6 of 8</b>
DOCUMENT NUMBER: <b>AS-30700-000</b>	CREATED / REVISED BY: <b>Chris Taylor</b>	CHECKED BY: <b>Matt Bailey</b>	APPROVED BY: <b>Mike Gonzalez</b>



# APPLICATION SPECIFICATION

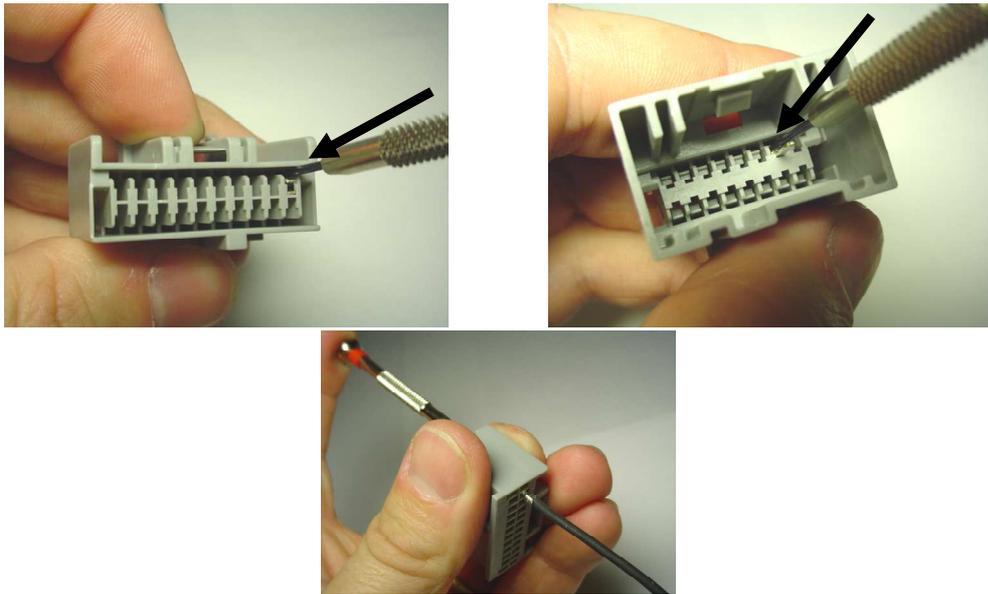
## Service Instructions

### D. Terminal removal (continued)

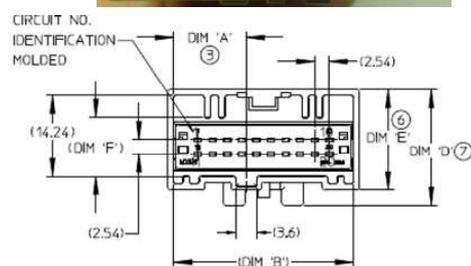
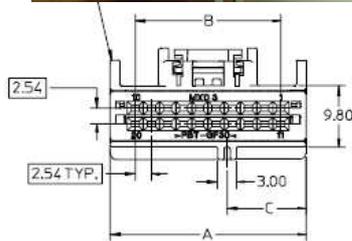
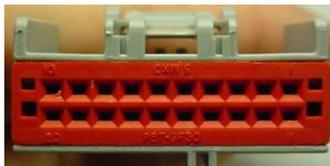
Step 3: Service tool should not be more than 2.0 mm wide. Using the designated service tool, disengage the terminal lock finger. Once the Lock finger is disengaged, gently pull on the wire to release the terminal. If the terminal resists, the service tool may not be fully engaged. Gently push the service tool further into the terminal lock finger to ensure that it has fully disengaged.

**Do not insert the service tool into the terminal opening!**

**Do not use excessive force, excessive force can damage the lock finger!**



### E. Electrical continuity checking

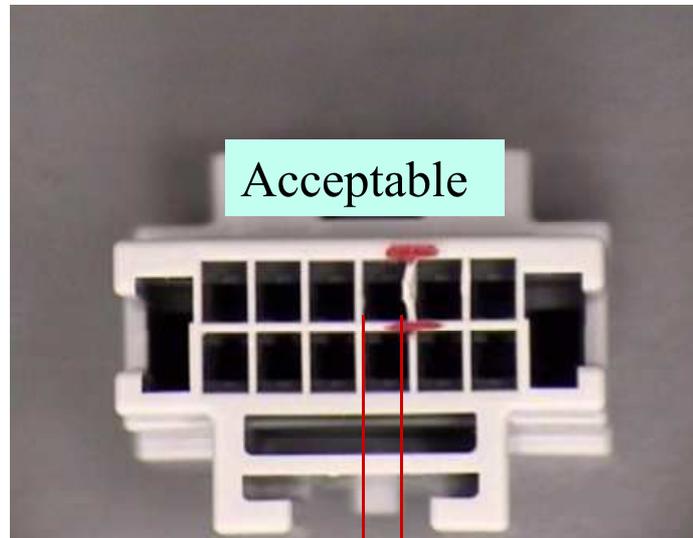


REVISION: <b>2</b>	ECR/ECN INFORMATION: EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	TITLE: <b>HDAC DUAL ROW APPLICATION MANUAL</b>	SHEET No. <b>7 of 8</b>
DOCUMENT NUMBER: <b>AS-30700-000</b>	CREATED / REVISED BY: <b>Chris Taylor</b>	CHECKED BY: <b>Matt Bailey</b>	APPROVED BY: <b>Mike Gonzalez</b>



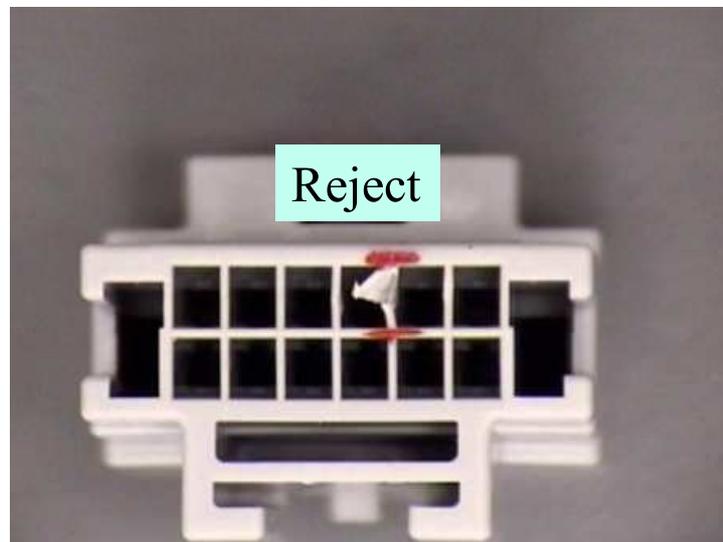
# APPLICATION SPECIFICATION

## HDAC housing damage inspection



2.00 mm minimum

The opening is 2.15 mm nominal.



REVISION: <b>2</b>	ECR/ECN INFORMATION: EC No: <b>UAU2012-0896</b> DATE: <b>2012/ Feb / 03</b>	TITLE: <b><u>HDAC DUAL ROW APPLICATION MANUAL</u></b>	SHEET No. <b>8 of 8</b>
DOCUMENT NUMBER: <b>AS-30700-000</b>	CREATED / REVISED BY: <b>Chris Taylor</b>	CHECKED BY: <b>Matt Bailey</b>	APPROVED BY: <b>Mike Gonzalez</b>