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Distributor of Molex Connector Corporation: Excellent Integrated System Limited
Datasheet of 0622018856 - PRESSIN TOOL 5PX16C
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Press-In Tool for Impact™ Signal Module Assembly

Impact™ Vertical Mezzanine Signal Module Installation Press-In Tool	**molex**® Application Tooling Specification Sheet	Order No. 62201-8856

FEATURES

- Use as a stand-alone tool or mounted in an optional holder with other Molex press-in tools.
- Guide surface provided for positive alignment to connector assembly
- Tool provides uniform distribution of press force across entire pin array

SCOPE

Products: Impact™ Vertical Mezzanine Signal Module Assembly, (3-Pair by 16 Column Assemblies. See Product List below for specific part numbers.

Product List

The following is a partial list of the product order numbers and their specifications this tool is designed to run. Updates to this list are available on www.molex.com.

Series	Guide Style	Columns		3 Pair Assembly Order Number		
170415	Open	16	170415-0918	170415-0922	170415-1918	170415-1922
	Left	16	170415-3922			
	Right	16	170415-5922			

Tool Setup

Depending on the number of connectors to be installed and/or the press used, this tool can be used as a stand-alone or with a group of press-in tools, mounted in a 62201-95XX rail (ordered separately). See Figure 1.

ALONE

PRESS-IN TOOL

Figure 1

WITH 62201-95XX RAIL

GUIDE SUFACES

GUIDE SUFACES
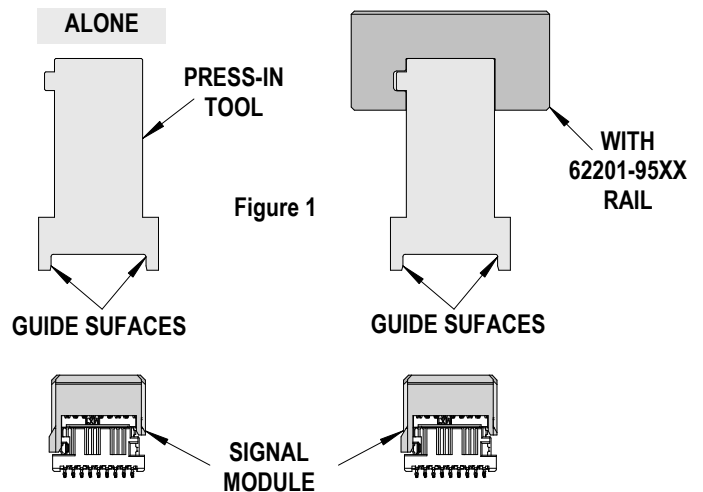
SIGNAL MODULE

Press-In Tool for Impact™ Signal Module Assembly

Tool Installation

The 62201-95XX rail is available in a variety of lengths to accommodate multiple press-in tools.

Rail Part Number	Rail Overall Length
62201-9501	24mm (0.94 in)
62201-9502	72mm (2.83 in)
62201-9503	156mm (6.14 in)
62201-9504	216mm (8.50 in)
62201-9509	254mm (10.0 in)
62201-9511	305mm (12.0 in)

Reference: This Press-In Tool is 30.4mm (1.20 in.) wide x 19.2mm (0.76 in.) long.

Printed Circuit Board (PCB) Support

The Impact™ connectors require up to 6.0kg (13.2 lbs) of force per pin to press into the PCB. To prevent flexing or damage to the PCB, a support plate is strongly recommended directly beneath the connector terminal hole pattern.

Due to the custom nature of every application, a board support is required for proper tool application. This can be supplied by the customer or by Molex. For more information contact Molex Application Tooling.

When creating a PCB support plate, allow clearance for connector terminal pins that pass through the PCB.

## Press Equipment Recommendations

Many types of presses can be used to install Impact™ connectors, but to assure consistent connector installation Molex recommends the following press criteria:

1. The capability to detect force variations as low as 4.5kg (10 lb) during the press-in cycle; excessive force measurements should stop the press-in cycle.
2. The rate of pressing can be regulated as low as 0.13mm (0.005 in) per second.
3. Press stroke control to within 0.25mm (0.010 in).
4. Total press stroke must be at least 19mm (0.75 in).
5. For statistical purposes, automatic collection of force and distance data.

Press-In Tool for Impact™ Signal Module Assembly

Tool Operation

1. Carefully insert, by hand, the vertical Signal module(s) into the PCB hole pattern. Make sure the connector(s) are oriented properly to the PCB layout.
2. Line-up the Press-In tool so that the guide surfaces on the tool are in line with the sides of the vertical Signal module. See Figure 2.

PRESS-IN TOOL

GUIDE SURFACES

SIGNAL MODULE

PRESS-IN TOOL

Figure 2

PC BOARD

0.10mm (.004")
Maximum
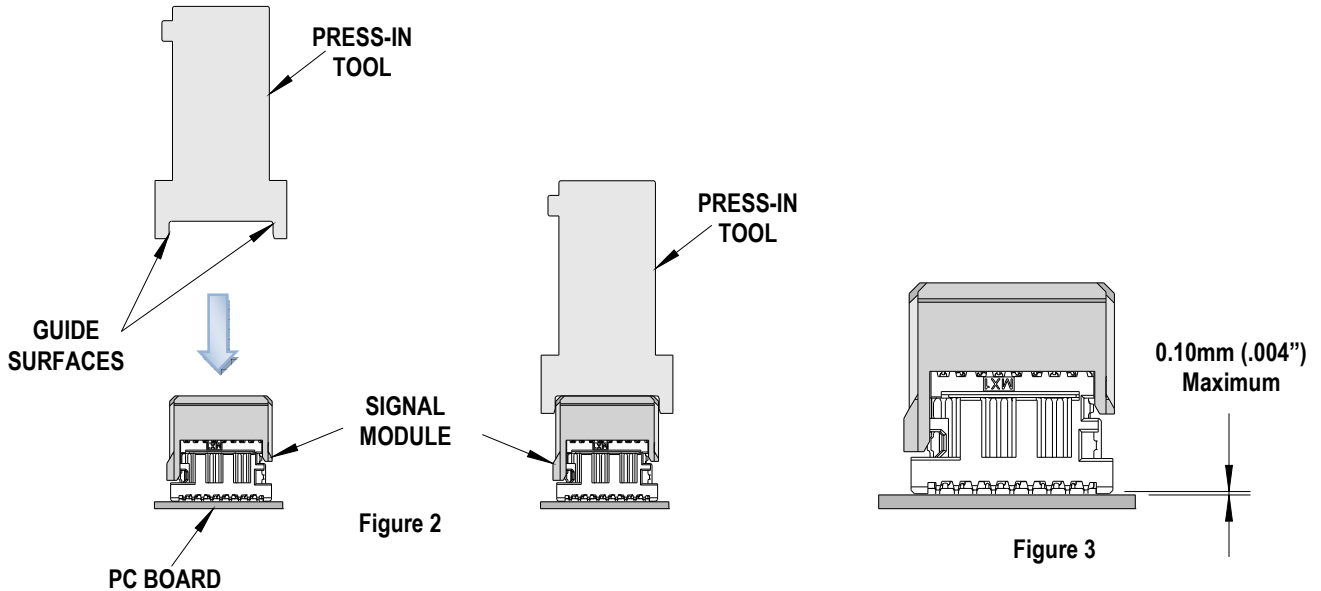
Figure 3

3. Using the application tool and an appropriate press, seat the Signal module until there is less than 0.10mm (.004 in.) clearance between the bottom of the plastic housing and the surface of the PCB. See Figure 3.

CAUTION: To prevent injury, never operate any press without the guards in place. Refer to the press manufacturer's instruction manual.

CAUTION: Molex application tooling specifications are valid only when used with Molex connectors and tooling.

Contact Information
For more information on Molex application tooling please contact Molex at 1-800-786-6539.

Visit our Web site at http://www.molex.com