***Note: Wording in italic font is intended for instructions for the Engineer preparing the specification and should be removed prior to releasing.***

## 1.0 OBJECTIVE

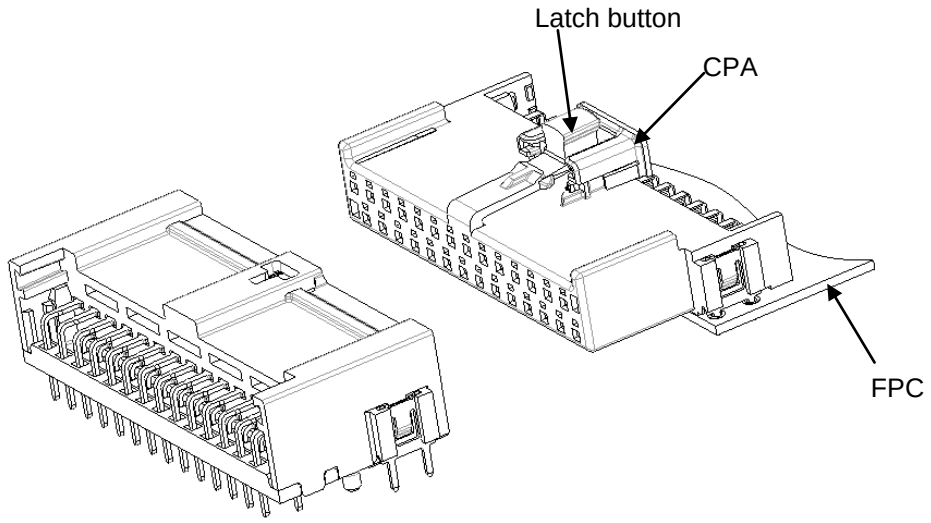
This specification provides information and requirements regarding customer application of (Flex Lock FPC to BOARD). This specification is intended to provide general guidance for application process development. It is recognized that no single application process will work under all customer scenarios and that customers will develop their own application processes to meet their needs. However, if these application processes differ greatly from the one recommended, AICC cannot guarantee results.

## 2.0 SCOPE

This specification provides information and requirements regarding customer application of (Flex Lock FPC to BOARD). **(Product Type: SMT, Thru-Hole ,-…..).**

## 3.0 GENERAL

This document is meant to be an application guide. If there is a conflict between the product drawings and specifications, the drawings take precedence.



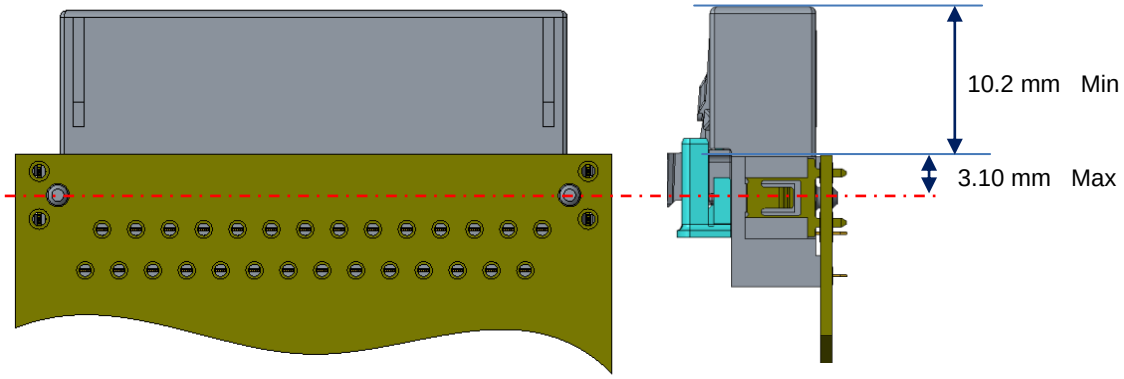

## 4.0 DRAWINGS AND APPLICABLE DOCUMENTS

- AFCI PRODUCT SPECIFICATION GS-12-1679
- AFCI PRODUCT DRAWINGS
- APPLICATION MANUALS/INSTRUCTION SHEETS (IF NOT INCLUDED IN THIS DOCUMENT)

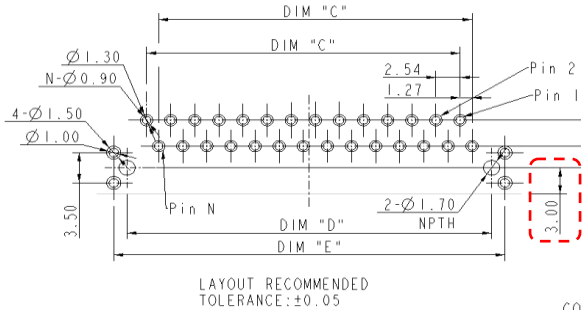
Product drawings and **AFCI's GS-12-1679** Product Specification are available at www.fci.com In the event of a conflict between this application specification and the drawing, the drawing will take precedence. Customers are advised to refer to the latest revision level of AFCI product drawings for appropriate details.

## 5.0 APPLICATION REQUIREMENTS

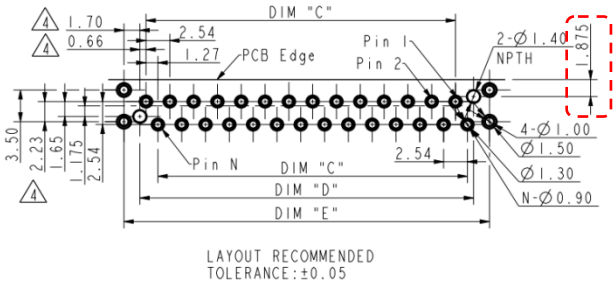
***(For Pin In Hole Solder Including Intrusive reflow. BGA and Surface Mount use the following)*** For specifics of PC board layout, refer to the customer drawings for the particular Part Number being applied.
Header Conn: The thickness of PCB is 0.8~1.6 mm.
Rec Conn: FPC should add stiffening plate and total thickness is 0.8~1.6 mm.
The dimension should refer to drawings.
Stencil thickness is 0.15 mm.

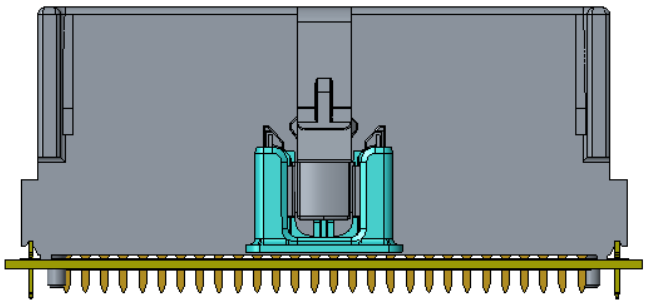


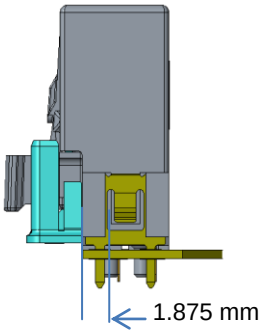

REC RA




REC VT





## 6.0 APPLICATION TOOLING

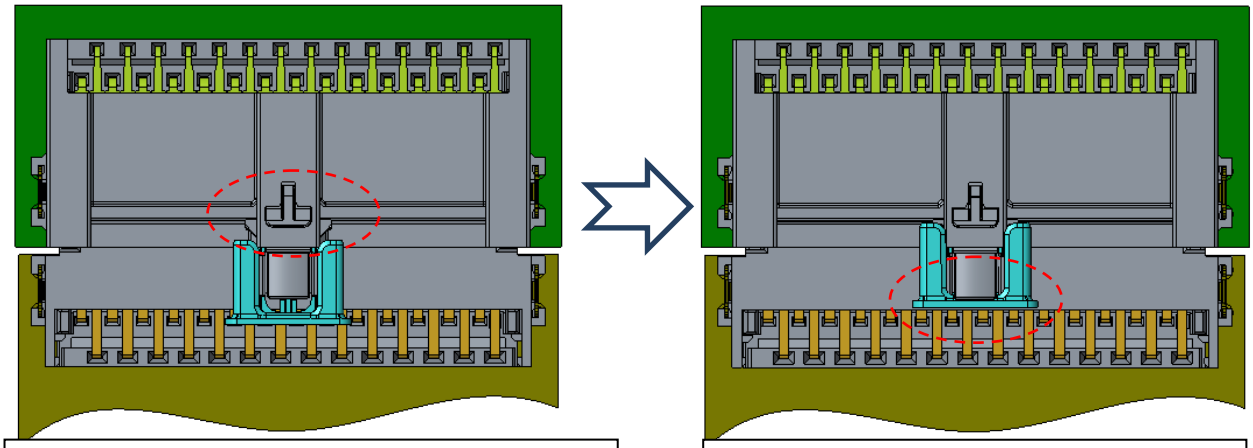
Application Tooling needed for separation of (Flex Lock FPC to BOARD). is defined in Table **(X)**:

*(The table below is an example of information required)*

| Tool PN | Tool Description | Connector PN | Connector Description |
|---|---|---|---|
| *10164000-001* | *Separator for 10~30pin* | *10158557 & 10158558* | *Header RA & Rec RA* |
| *10164001-001* | *Separator for 10~30pin* | *10158557 & 10161735* | *Header RA & Rec VT* |
| | | | |

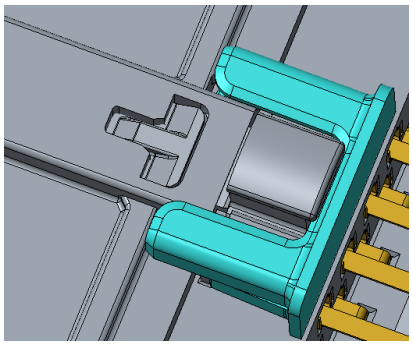
## 7.0 APPLICATION PROCEDURE

Insert the terminal into housing until hearing the sound of the locker and the front is stopped by housing. Then locking tab will be engaged the retention shoulder and prevent back out during mating. Pull back on the wire lightly and ensure the terminal is fully seated



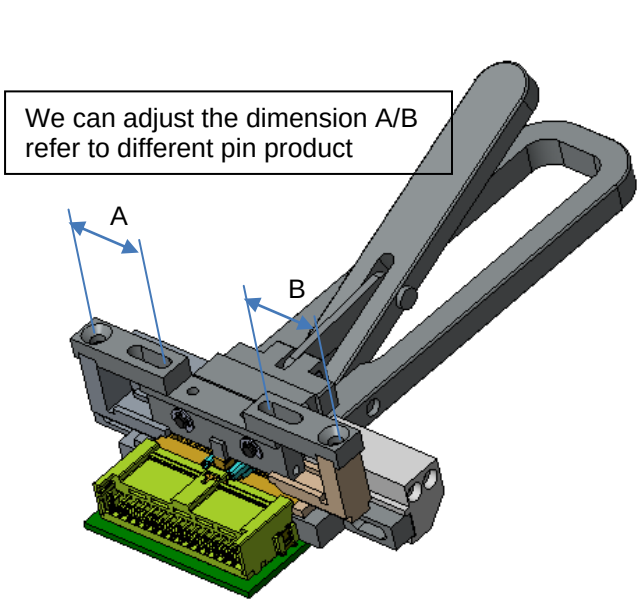
Mating Header and REC until the feature of Lock is working first.
The relative positions are shown in the figure.

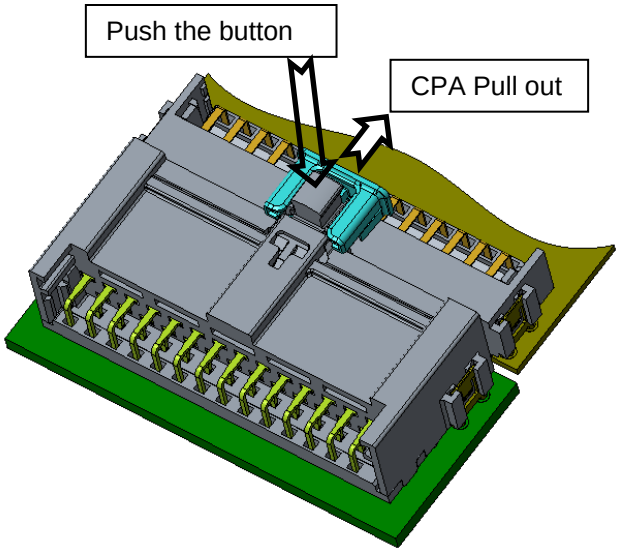
Then push the CPA to the location and make the second lock working.



Make sure the lock and CPA is at working state like the picture show.

*If you want to separate them, you should make the CPA is unlock and push the latch button.*
*Pull the CPA first, and then pull the connector*
*(sometime you need use tool to make them separated since the retention force is bigger)*




## 8.0 RECORD RETENTION

| REV | PAGE | DESCRIPTION | EC# | DATE |
|---|---|---|---|---|