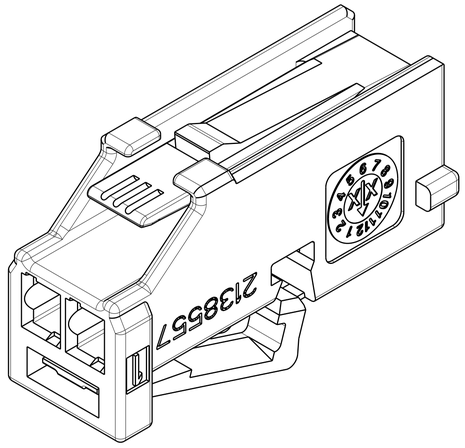
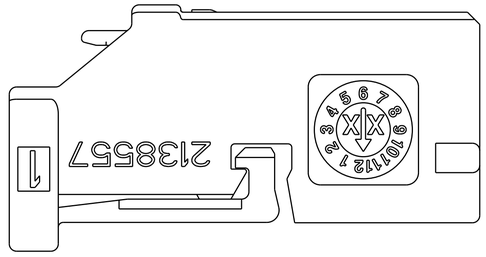
THIS DRAWING IS UNPUBLISHED. RELEASED FOR PUBLICATION 20
© COPYRIGHT 20 BY - ALL RIGHTS RESERVED.

LOC	DIST
GE	00

REVISIONS

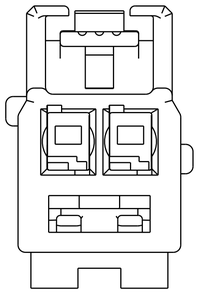
P	LTR	DESCRIPTION	DATE	DWN	APVD
	A	RELEASED PER ECO-13-001134	21JAN2013	MDB	MDB

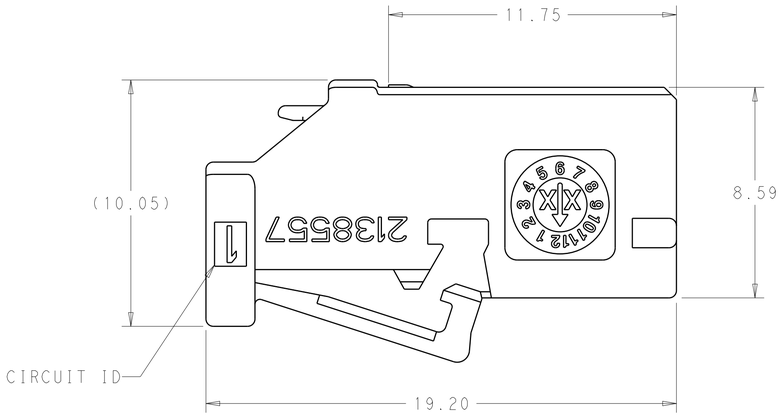


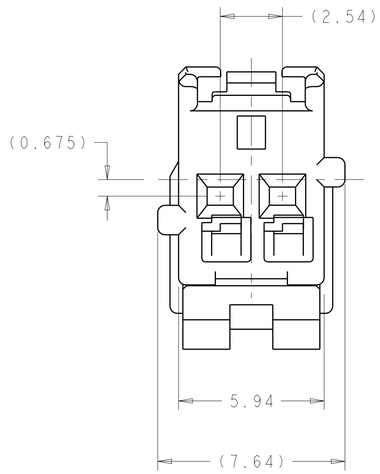


2138557-1 ASSEMBLED VIEW

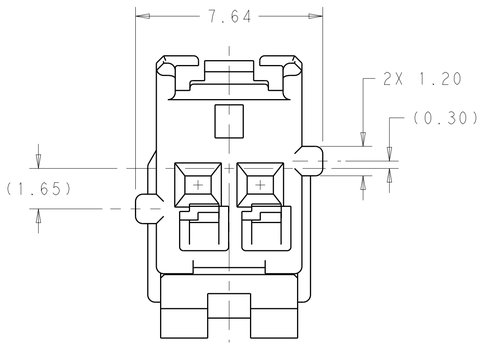
1. MATERIAL: PBT, 15% GF.
   COLOR : SEE TABLE
2. PLUG MATES WITH CAP HOUSING 2138558
3. PLUG WILL ACCEPT GENERATION Y RECEPTACLE CONTACTS, DOWNWARD ORIENTATION, ISL-LOCKUP.
4. NOTE REMOVED.
5. FOR HARNESS ASSEMBLY INSTRUCTIONS, SEE TE SPEC 408-32069.



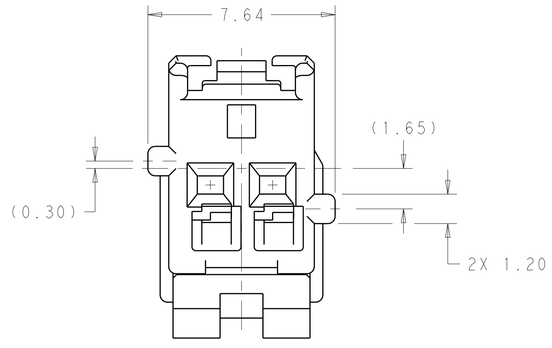




勝特力電材超市-龍山店 886-3-5773766
勝特力電材超市-光復店 886-3-5729570
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
http://www.100y.com.tw



KEYING OPTION A
2138557-1



KEYING OPTION B
2138557-2

2138557-1 AS SHOWN

COLOR	KEYING OPTION	PART NUMBER
GRAY	B	2138557-2
BLACK	A	2138557-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.3
2 PLC ±0.10
3 PLC ±-
4 PLC ±-
ANGLES ±1°

MATERIAL - 1

FINISH - -

DWN K. WHITAKER 27MAY2011
CHK D. BROWN 27MAY2011
APVD D. BROWN 27MAY2011
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT -

TE Connectivity

NAME SINGLE PIECE PLUG, 2 POSITION, GENERATION Y
-

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-2138557	-

Customer Drawing | SCALE 8:1 | SHEET 1 OF 1 | REV A

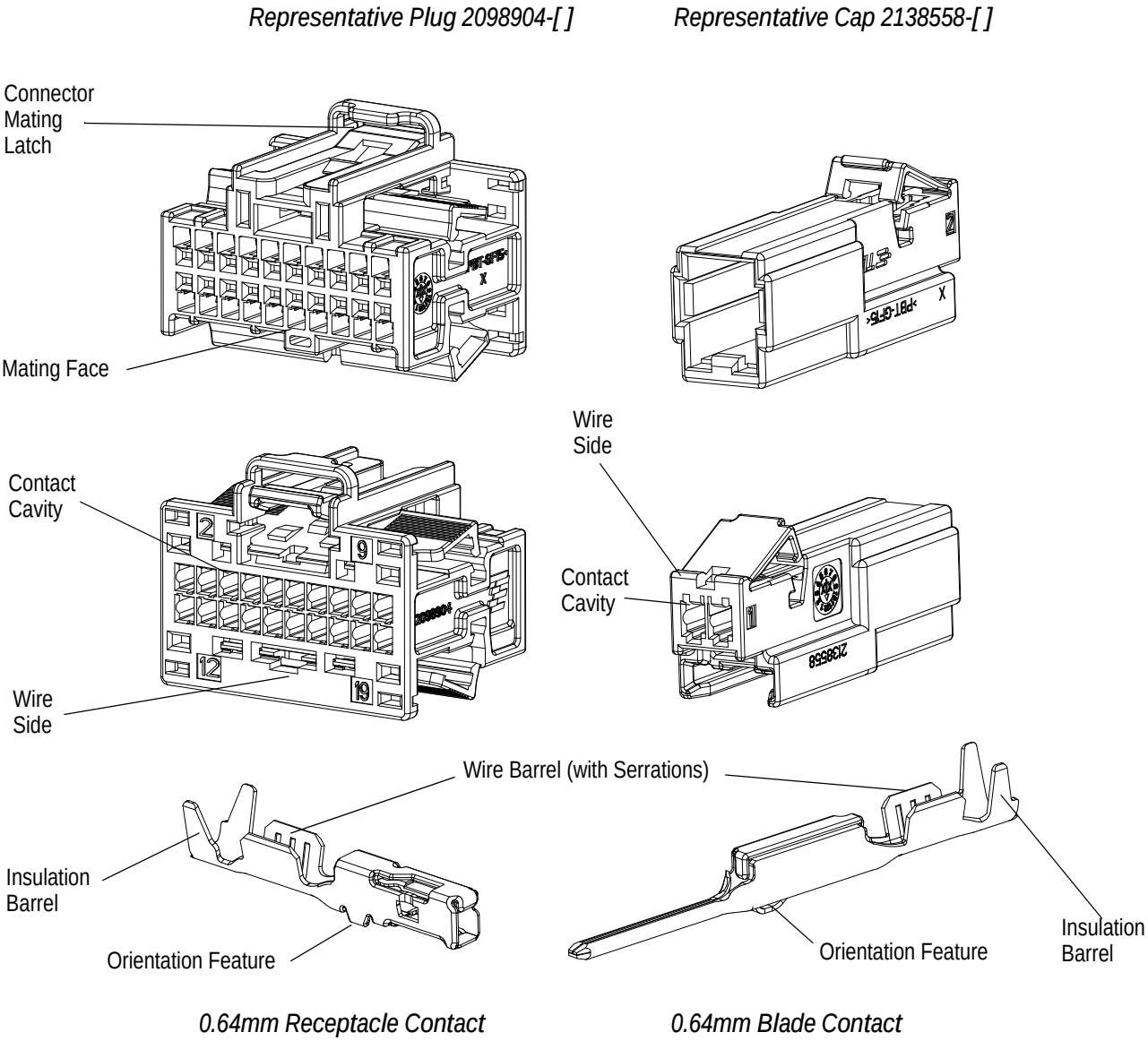


Figure 1

1. INTRODUCTION

This instruction sheet provides information on the assembly procedures for the Generation Y Unsealed 0.64mm Single-Piece Connectors. Representative cap and plug housings are shown in Figure 1. Representative part numbers for this family of connectors are: 2098904-[ ], 2138504-[ ], and 2138557-[ ] (plugs); 2138558-[ ] (caps).

NOTE

All dimensions on this document are in metric units. Figures and illustrations are for reference only and are not drawn to scale.

Read these instructions carefully before attempting any assembly procedures. Also refer to Application Specification 114-13183 for termination requirements.

2. DESCRIPTION

Figure 1 provides the components required to make the assembly in this instruction sheet. Contact material is made from a copper alloy, pre-plated with tin or bright tin. The connector housings are made from low-glass content plastic materials.

©2012 Tyco Electronics Corporation, a TE Connectivity Ltd. company
All Rights Reserved
*Trademark

TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks. Other logos, product and/or company names may be trademarks of their respective owners.

3. ASSEMBLY PROCEDURES

NOTE

The 20-position connector is shown throughout this document, however, any connector requires the same information procedures for assembly and disassembly.

3.1. Tooling

Refer to Application Specification 114-13183 for specific manual and semi-automatic termination tooling for the 0.64mm receptacle and blade contacts.

3.2. Contact Assembly

The following procedures provide the details of the contact installation into the connector housing.

1. Terminate the contacts to the correct wire size according the information provided in the specific application specifications.

NOTE

The connector housings are shipped with the secondary locks in an open position, however, during shipping, the secondary locks may become closed. Make sure the locks are in the OPEN position before any contacts can be inserted into those contact cavities. See Figure 2.

2. The terminated contact must be aligned with the contact cavity at the wire end of the connector and oriented as shown. The contact orientation feature faces away from the secondary locks. See Figure 3. Terminals will only easily go into cavity in one orientation.

3. Each contact must be inserted into a contact cavity until the connector primary latch engages the contact. See Figure 4A. (There should be an audible and tactile click which indicates that the contact has been fully inserted.) Pull back gently to ensure the contact has been locked in place. See Figure 4B.

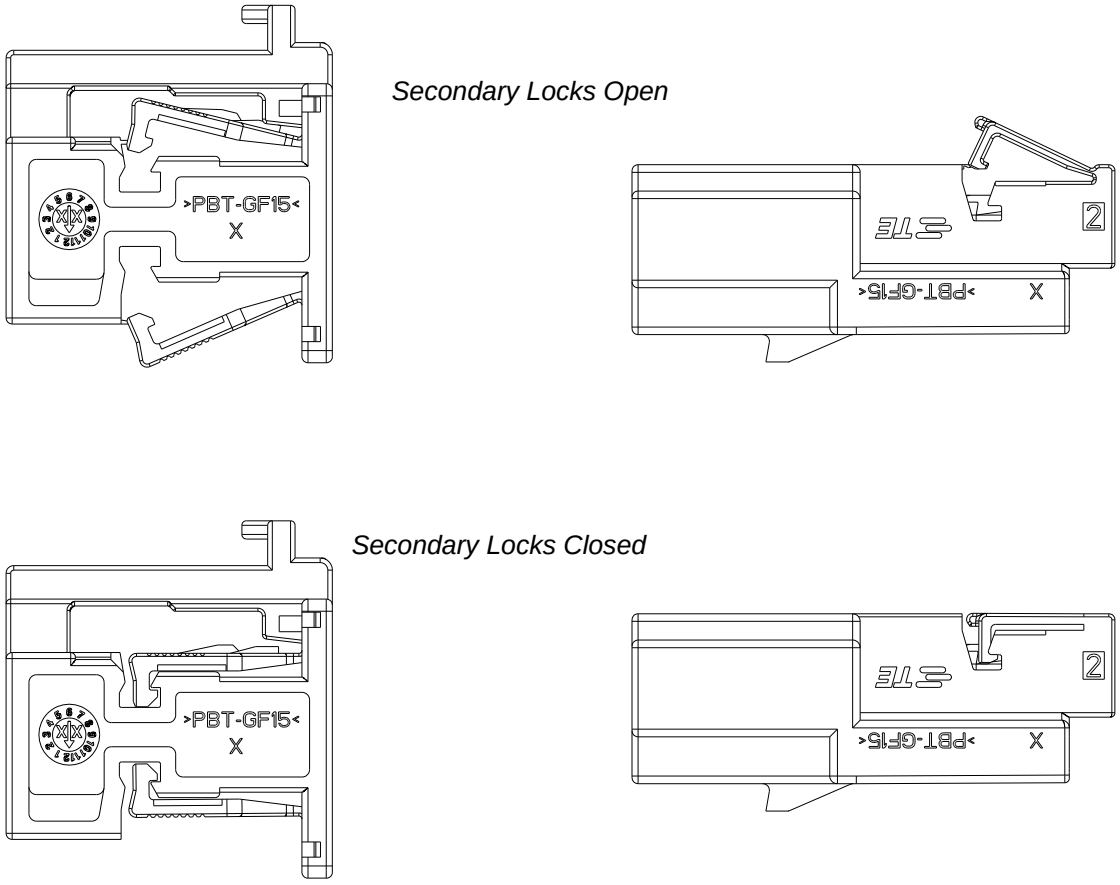


Figure 2

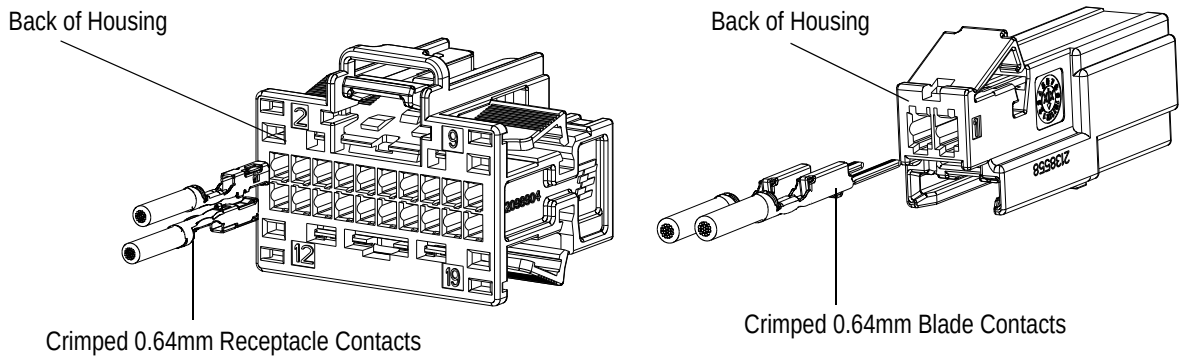


Figure 3

4. The secondary lock (for the corresponding contact cavities) must be rotated to the CLOSED position. The secondary lock is in the CLOSED position when the locking latches are fully secure to the locking tabs. After all desired contact positions are loaded, if the secondary locks do not snap to the closed position with an audible and tactile feedback, and sit flush with the adjacent surfaces of the connector body, it is likely that one or more contacts are not fully installed. The secondary lock is the detection for partially installed terminals. Re-open the secondary lock and push/pull on the wire of each contact to ensure they are fully inserted and engaged with the primary contact latch in each cavity.

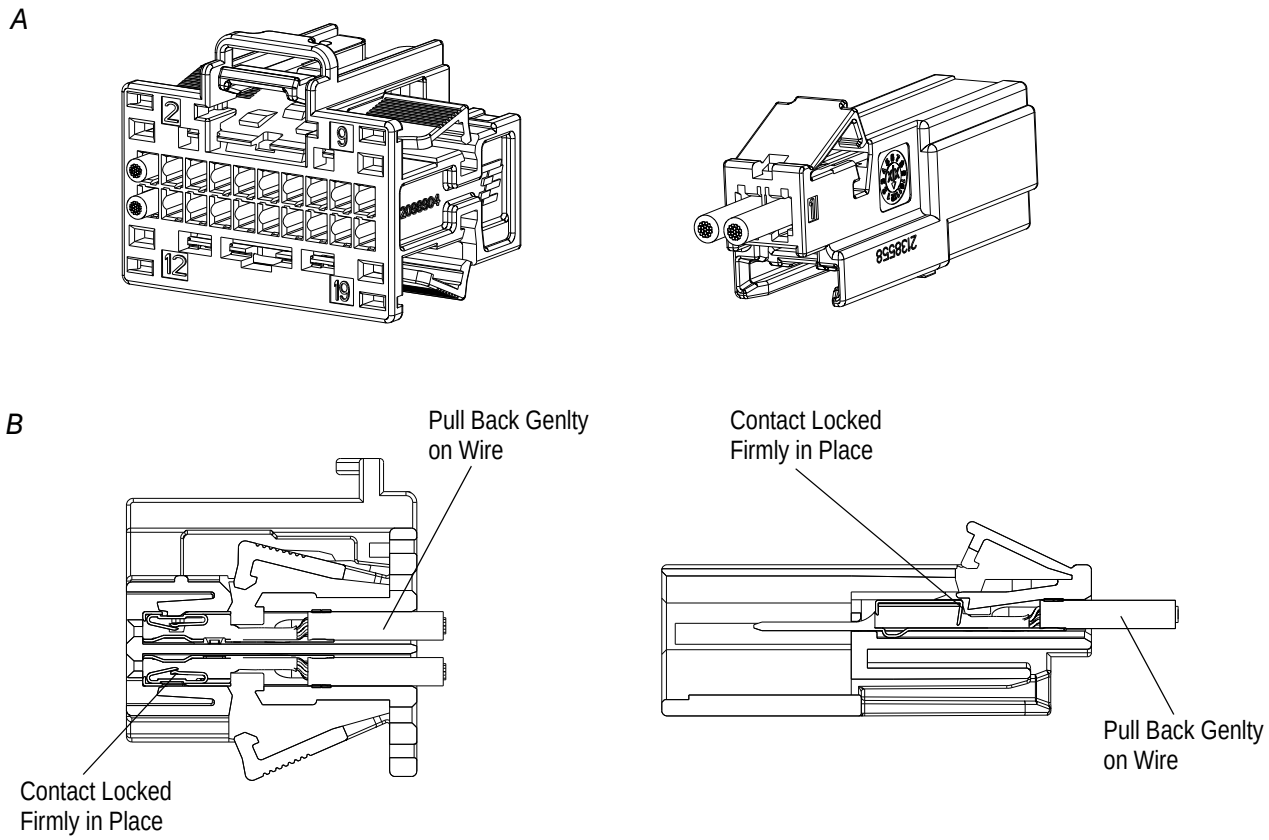


Figure 4

3.3. Circuit Testing

On the plug housing, test probe windows are located at each contact cavity on the mating face, to accomodate test probes for circuit testing. Individual test probes, or equivalent, must have a diameter of 0.64±0.05 mm with a minimum pin length of 1.5 mm. The force exerted by the probe should be no more than 10 N [2.25 lb] per contact cavity. Test probe location layout is shown in Figure 5

On the cap housing, circuit testing is typically done by probing the tip of the inserted blade contact.

NOTE

The test probe should not enter into the terminal mating area.

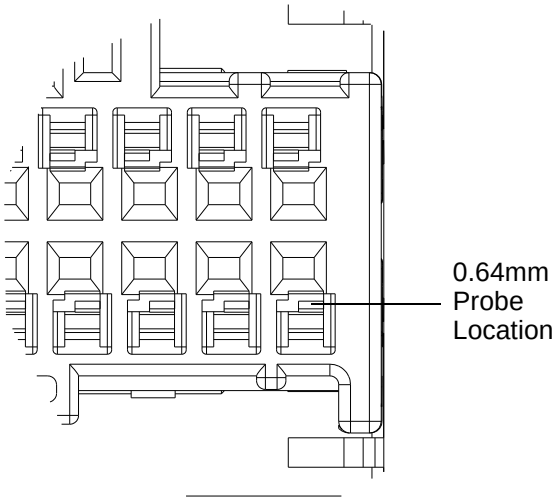


Figure 5

CAUTION

Pointed or sharp instruments MUST NOT be used for probing; otherwise, damage to the socket connector could result. To avoid system failure, the wire insulation MUST NOT be pierced.

3.4. Contact Removal

The secondary lock (for the corresponding contact cavities) must be in the OPEN position before any contacts can be removed from those contact cavities. The locking latches must be released from the locking tabs to open the secondary lock (a small jewelers screwdriver with a maximum width of 4.0 mm must be used). The secondary lock must not be rotated beyond the limit.

CAUTION

If the secondary lock is rotated past the limit given, the secondary lock will break from the connector housing, and the connector housing must not be used.

CAUTION

Care must be taken not to damage the locking features with the tool.

The primary contact locking latch of the connector must be deflected before the contact can be removed from the connector. A suitable tool, (see Figure 6), must be inserted into the corresponding contact removal window to release the the primary contact latch, and the wire must be pulled gently to remove the contact from the connector.

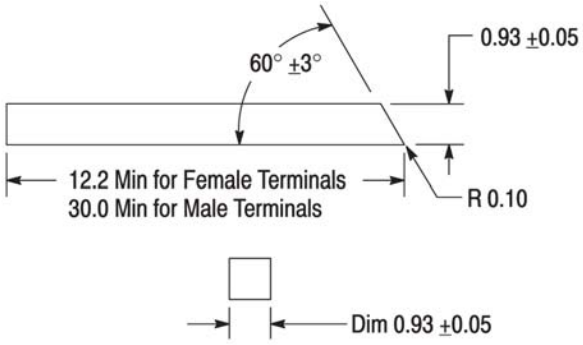


Figure 6

1. Insert a suitable tool (as described in Section 3.4) into the tapered slot on either end of the secondary lock. See Figure 7.

NOTE

Only the plug housing is shown in Figure 7. The cap housing operates in a like manner.

2. Gently rotate and lift the secondary lock until it snaps open.

3. Insert contact removal tool (as shown in Figure 6) or a jewelers/flat-bladed screwdriver (1.0 mm width) into the selected exposed contact cavity, as shown in Figure 8.

4. Grasp the wire of the contact to be removed and push the contact forward until it stops.

5. Simultaneously pull the wire and contact from the plug housing.

6. Follow Steps 1 through 4 for remaining contacts.

4. REPAIR/REPLACEMENT

CAUTION

These contacts and connectors are non-repairable. Damaged or defective contacts or connectors MUST NOT be used. A contact MUST NOT be re-terminated.

5. REVISION SUMMARY

Initial release of 408-32069

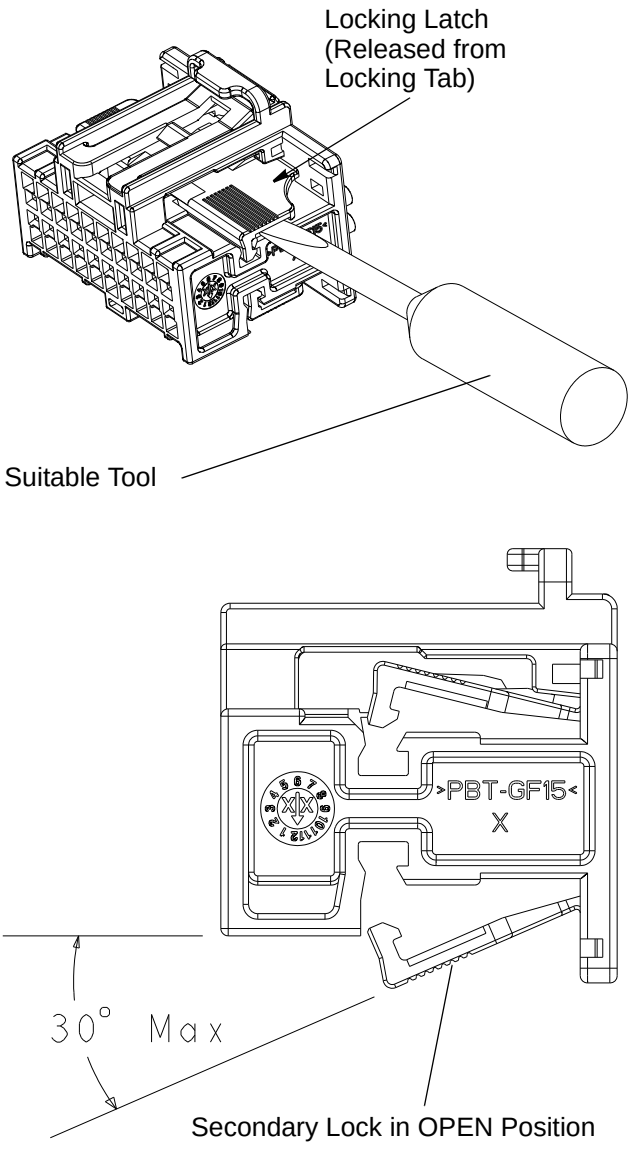


Figure 7

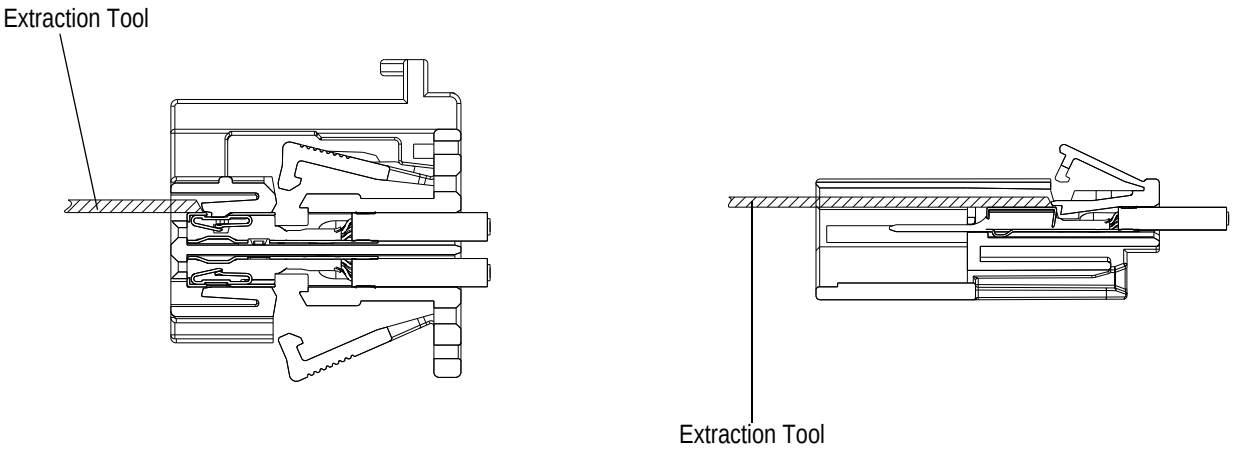


Figure 8