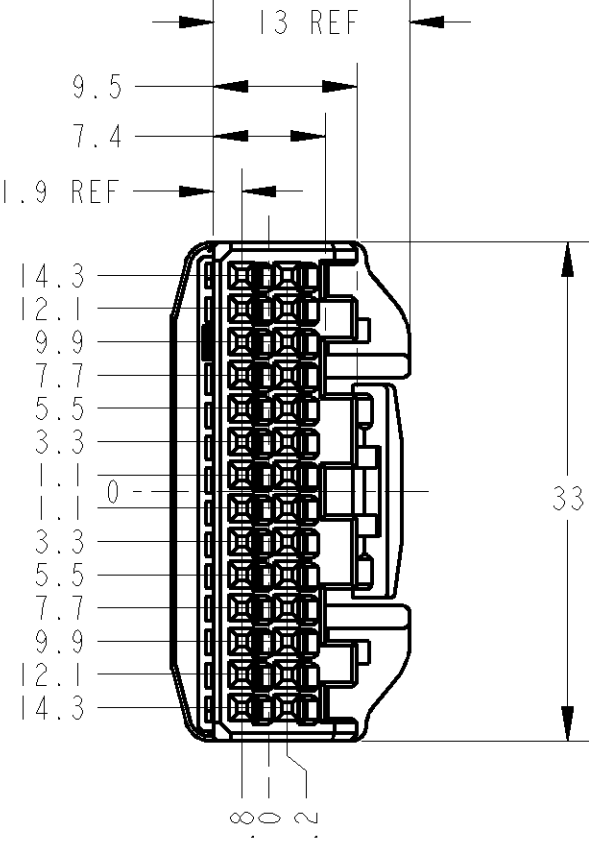
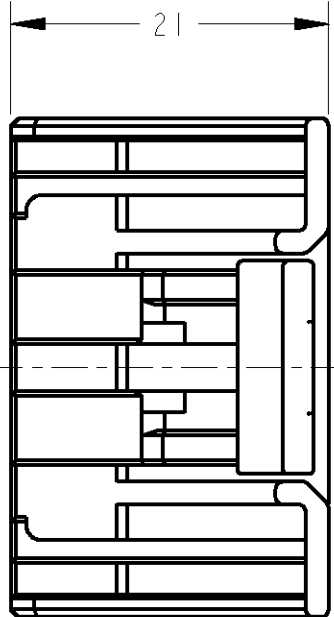
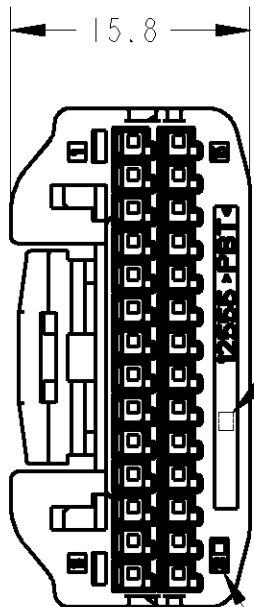
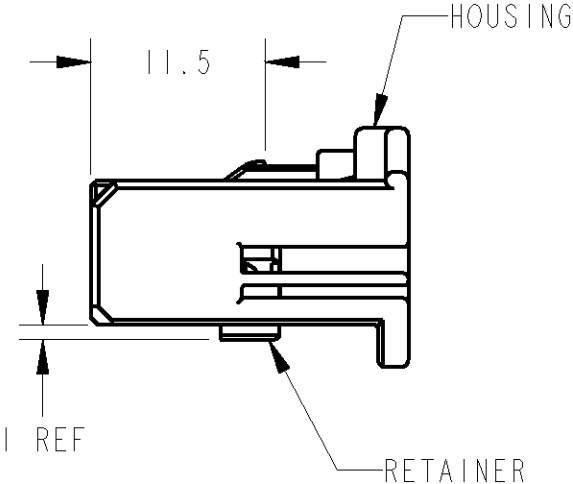


LOC	DIST	REVISIONS					
		P	LTR	DESCRIPTION	ECN	DATE	APVD
J	-		O	作成 RELEASED	FJA0-0067-04	26JAN04	SA KA
			A	REVISED	ECR-10-007504	26MAY10	TS KB



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
勝特力電子(上海) 86-21-34970699
勝特力電子(深圳) 86-755-83298787
<http://www.100y.com.tw>



- 1.RETAINER SHOULD BE SENT TO THE PRE-ASSEMBLY.
2.INSTRACTION SHEET NO.411-78080.
3.PART NUMBER OF CAP HOUSING TO BE MATED : SEE TABLE-1
4.APPLIED TERMINALS : SEE TABLE-2

- 1.プラグハウジングにリテーナを仮係止して出荷される
2.取扱説明書NO.411-78080
3.嵌合相手型番 : TABLE-1参照
4.適用端子 : TABLE-2参照

TABLE-1

POS 極数		CAP ASSEMBLY PART NO. キャップ 型番
28	W-W	1565377
	W-B	1565375

TABLE-2

		TERMINAL NO. 端子型番	APPLEVABLE WIRE RANGE 適用電線
0.64111 SIGNAL	TIN	1674311-1	AVSS/CAVS/CAVUS/AVSSH-f 0.3~0.5mm ²
	SELECTIVE GOLD	1674311-2	

PAPER BOX ダンボール	PLASTIC BAG ビニール袋	NATURAL	1717115-1
OUTER 外装	INNER 内装	COLOR	PART NUMBER
PACKING STYLE 梱包形態			

THIS DRAWING IS A CONTROLLED DOCUMENT FOR TYCO ELECTRONICS CORPORATION IT IS SUBJECT TO CHANGE AND THE CONTROLLING ENGINEERING ORGANIZATION SHOULD BE CONTACTED FOR THE LATEST REVISION.		DWN S. AMEMIYA 26JAN04	Tyco Electronics Corporation Kawasaki, Japan	
		CHK H. YAMAGAMI 26JAN04		
		APVD K. ASAI 26JAN04	NAME 名称 0.64111 28P PLUG HSG ASSEMBLY	
DIMENSIONS: 単位: ㎜		PRODUCT SPEC 製品規格 108-5931	SIZE A3	CAGE CODE 00779
TOLERANCES UNLESS OTHERWISE SPECIFIED: 一般公差 ±0.3 0-PLC ± 1-PLC ±0.1 2-PLC ±0.01 3-PLC ±0.001 4-PLC ±0.0001 ANGLES ±3'00"		APPLICATION SPEC 取付適用規格 114-5329	DRAWING NO 番号 C-1717115	RESTRICTED TO -
MATERIAL 材料 PBT		FINISH 仕上 SEE TABLE	WEIGHT 4.3g	
		CUSTOMER DRAWING	SCALE 尺度 2:1	SHEET 1 OF 1
			REV A	

0.64Ⅲ SERIES CONNECTOR**1. Part Name and Part Number**

*Note : Part number is consisted from listed base number and 1 digit numeric prefix and suffix with dash. Refer to catalog or customer drawing for specific part numbers for each base number. When prefix is zero, zero and dash are omitted.

1.1 Housing

TE Part Number★	Part Name
1674919	0.64Ⅲ/1.0Ⅲ 31POS. PLUG ASSY (Female Housing)
1674922	0.64Ⅲ/1.0Ⅲ 32POS. PLUG ASSY (Female Housing)
1827617	0.64Ⅲ/1.0Ⅲ 33POS. PLUG ASSY (Female Housing)
1674925	0.64Ⅲ/1.0Ⅲ 34POS. PLUG ASSY (Female Housing)
1674558	0.64Ⅲ/1.0Ⅲ 35POS. PLUG ASSY (A) (Female Housing)
1674928	0.64Ⅲ/1.0Ⅲ 35POS. PLUG ASSY (B) (Female Housing)
1473193 6473193	0.64Ⅲ/1.0Ⅲ 70POS. CAP ASSY (Male Housing)
1376430 6376430	0.64Ⅲ/1.0Ⅲ 135POS. CAP ASSY (Male Housing)
1612435	0.64Ⅲ/1.0Ⅲ 167POS. STD CAP ASSY (Male Housing)
1318813 6318813	0.64Ⅲ/1.0Ⅲ 167POS. CAP ASSY (Male Housing)
1473649 6473649	0.64Ⅲ/1.0Ⅲ 200POS. CAP ASSY (Male Housing)
1746863	0.64Ⅲ/2.3Ⅱ 26Pos. PLUG ASSY (Female Housing)
1674932	0.64Ⅲ/2.3Ⅱ 26Pos. PLUG ASSY (Female Housing) (2ROW-TYPE)
1746864	0.64Ⅲ/2.3Ⅱ 24Pos. PLUG ASSY (Female Housing)
1746865	0.64Ⅲ/2.3Ⅱ 30Pos. PLUG ASSY (Female Housing)
1717103	0.64Ⅲ 8Pos. PLUG ASSY (Female Housing)
1746875	0.64Ⅲ 8Pos. PLUG ASSY (Female Housing) (1ROW-TYPE)
1903563	0.64Ⅲ 8Pos. PLUG ASSY (Female Housing) (2ROW HIGH LOCK TYPE)
1981471	0.64Ⅲ 8Pos. PLUG ASSY (Female Housing) (2ROW KEYING-TYPE)
2298343	0.64Ⅲ 8Pos. PLUG ASSY (Female Housing) (2ROW SHORT-TYPE)
2317984	0.64Ⅲ 10Pos. PLUG ASSY (Female Housing) (1ROW-TYPE)
1717106	0.64Ⅲ 12Pos. PLUG ASSY (Female Housing)
1746872	0.64Ⅲ 12Pos. PLUG ASSY (Female Housing) (SHORT BODY-TYPE)
1747375	0.64Ⅲ 12Pos. PLUG ASSY (Female Housing) (KEYING-TYPE)
1717109	0.64Ⅲ 16Pos. PLUG ASSY (Female Housing)
1717112	0.64Ⅲ 24Pos. PLUG ASSY (Female Housing)
1717115	0.64Ⅲ 28Pos. PLUG ASSY (Female Housing)
1717118	0.64Ⅲ 32Pos. PLUG ASSY (Female Housing)
1674312	0.64Ⅲ 40Pos. PLUG ASSY (Female Housing)
1747285	0.64Ⅲ 8Pos. CAP ASSY (Male Housing) (1ROW-TYPE)
2317945	0.64Ⅲ 10Pos. CAP ASSY (Male Housing) (1ROW-TYPE)
2306719	0.64 40Pos. CAP ASSY (Male Housing) (2ROW-TYPE)

Fig.1

1.2 Contact

TE Part Number★	Part Name	Wire Type ⁽¹⁾ (○ : Applicable, — : Not Applicable)									
		Type	0.22	0.3	0.3f	0.35	0.5	0.85	1.25	1.5	1.5f
1674311	0.64III RECEPTACLE (Female Contact)	CAVUS	—	○	—	—	○	—	—	—	—
		AVSS/AVSSH	—	○	—	—	○	—	—	—	—
		CAVS	—	○	—	—	○	—	—	—	—
		AESSX	—	○	—	—	○	—	—	—	—
		AVX	—	—	○	—	—	—	—	—	—
		CHFUS	—	—	—	○	—	—	—	—	—
316836 316837	1.0III S RECEPTACLE (Female Contact)	CAVUS	—	○	—	—	○	○	—	—	—
		CAVS/AVSS	—	○	—	—	○	○	—	—	—
		AVS	—	○	—	—	○	—	—	—	—
316838	1.0III M RECEPTACLE (Female Contact)	CAVUS	—	—	—	—	—	—	○	—	—
		CAVS/AVSS	—	—	—	—	—	○	○	—	—
		AVS	—	—	—	—	○	—	—	—	—
1674769	1.0III ML RECEPTACLE (Female Contact)	VS/AVSS/CAV	—	—	—	—	—	—	○	—	—
		CHFUS	—	—	—	—	—	—	—	○	—
		HFSS	—	—	—	—	—	—	—	—	○
***	2.3II RECEPTACLE (Female Contact)	See each Contact maker documents									

(1) Applicable wire is this manual may be subject to change on the results of additional testing and evaluation.

Fig.2

1.3 Components View

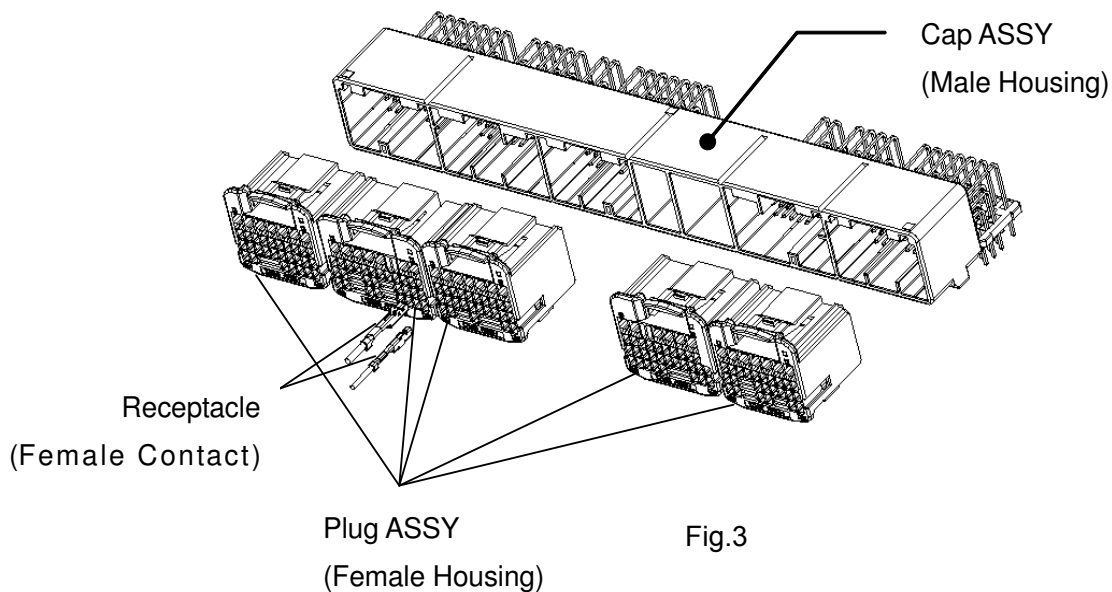


Fig.3

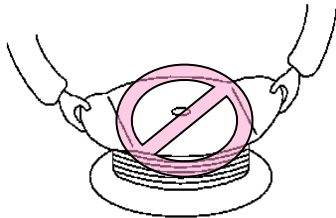
2. Customer Receiving Inspection

We conduct inspections according to our quality control regulations to maintain an over all lot control. In addition, the customers should conduct receiving inspections based on the specific customer drawings.

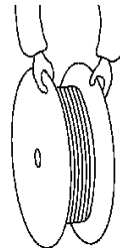
3. Storage and Carrying

3.1 Contact

- (1) Avoid leaving or carrying the contact reel in an open area without wrapping it in proper material.
- (2) Do not lift up and carry the contact reel by gripping one the side of reel, this may result in damage to the reel, and contacts before use. (See Fig.4)



Do not lift up laterally holding one side only.



Acceptable

Fig.4

- (3) Avoid storing the contact reel in a moist or dusty place. Stock the reel in a comparatively dry and clean place (5~35°C, 45~85%RH) away from direct sunlight.

- (4) When removing the contact reel from the machine, fasten the end of contact strip onto the edge of the reel with use of proper string or wire. (See Fig.5)

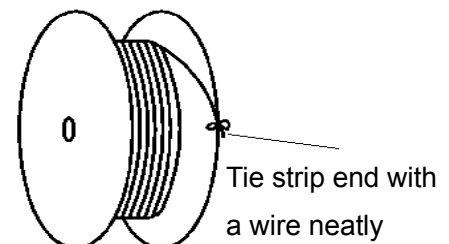


Fig.5

3.2 Housing

- (1) Avoid storing the contact reel in a moist or dusty place. Stock the reel in a comparatively dry and clean place (5~35°C, 45~85%RH) away from direct sunlight.
- (2) Avoid leaving or carrying the contact reel in an open area without wrapping it in proper material.
- (3) Do not drop or shock the housing when carrying it.

4. Fixing Housing and PC Board

Insert the contact of the male connector into the hole of PC Board. Then after fixing the housing and the board with a screw, solder the contacts. And take care of the following at the work.

- (1) Mount and solder onto PC Board within 3 months after purchase .
- (2) See the customer drawing for the PC Board dimension.
- (3) Do not deform the contact (PC Board side), otherwise the male connector can not be fixed on the PC. Board.

- (4) The fixing should be made with the proper type of screw and torque.
Recommended Screw: JIS B1115, B1122, tapping screw, pan head, class2, M3x6
Recommended Torque: Establish control value in every combination of the P.C.B which is actually used, and the screw.
- (5) Please do not tighten again after removing the screw.
- (6) No discoloration nor deformation should be caused by the heat of soldering.
- (7) In addition, both sides (mating side and solder side) of the contact and the housing must not be damaged or deformed by the operation. No foreign substances are permissible in the mating area.

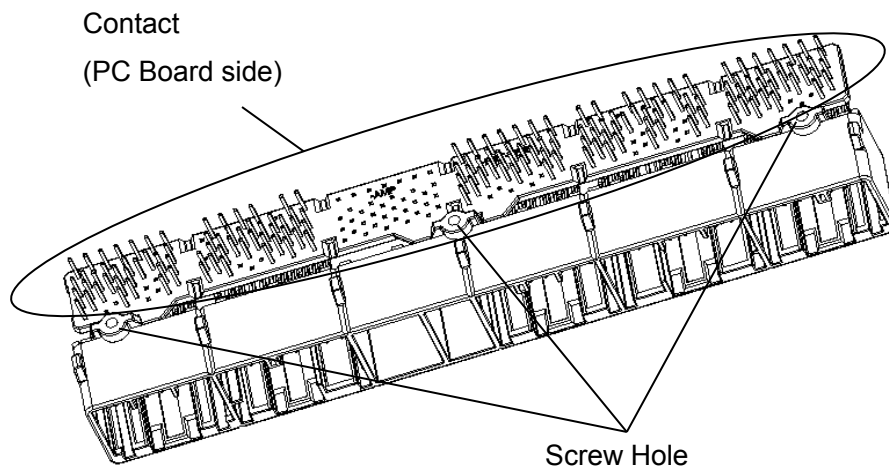


Fig.6

5. Crimping Operation

Any crimping of contacts must be performed by using appropriate TE tools according to the applicable Instruction Sheet and Specification.

5.1 Wire

5.1.1 Applicable Wire

See Fig.2 for applicable wire.

5.1.2 Notes for Stripping of Wire End

Wire end must be stripped without nick, cutoff, or damage of wire strands.

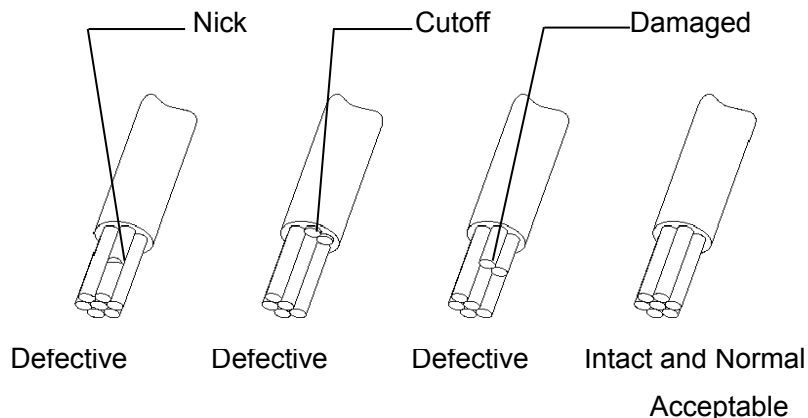


Fig.7

5.2 Operation of Crimping Machine

See instruction sheet “409-10047(separate volume) • 412-5539(separate volume)” for automatic terminating machine.

5.3 Crimping Specification

In the case of “0.64III Receptacle Contact”, see application specification “114-5329(separate volume)” .

In the case of “1.0III Receptacle Contact”, see application specification “114-5217(separate volume)” .

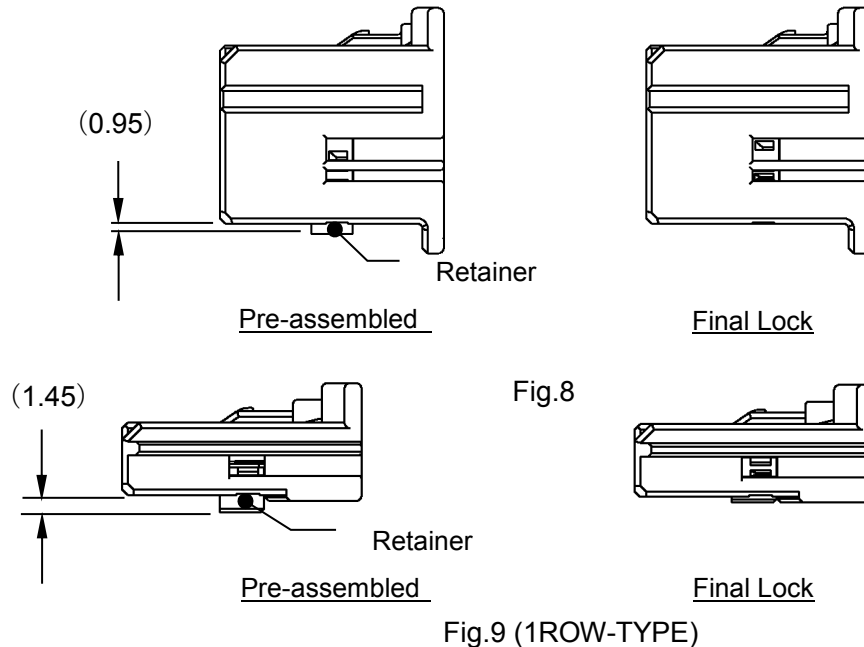
5.4 Storage and Handling of Crimped Products

- (1) Store the products in a clean, dry area, cover with proper sheet or paper when placed in an open area until the next day.
- (2) Crimped leads should be processed in bundles of less than 100 pieces. In addition, care should be taken in case the leads catch together or be tangled, causing damage of the products.
- (3) Avoid stacking and piling up the in-process products in large volume. Deformation of the contact will result in malfunction of contacting parts electrically.

6. Harness Making

6.1 Procedure for Female Contact Insertion into Housing

(1) Confirm the retainer is in pre-assembled condition. When the retainer is in final lock condition, it must be unlocked to pre-assembled condition. See para.6.3. The contact can not be inserted in final lock condition.



(2) Confirm type of plating on the contact. It must be the same type of plating on the female contact and on the male contact.

The type of plating can be seen on the customer drawing.

NOTE Connection between different types of contacts should never be allowed.

(3) Insert the contacts into the housing with same direction as shown in Fig.10. The insertion is finished when the lance is locked and the contact can not be more inserted.

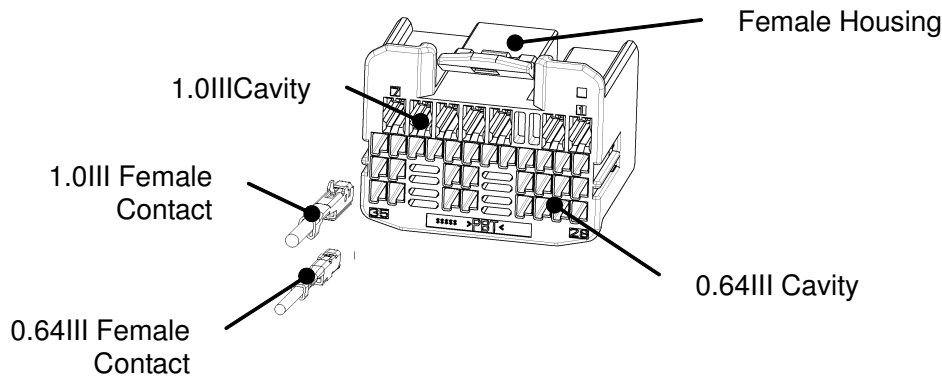
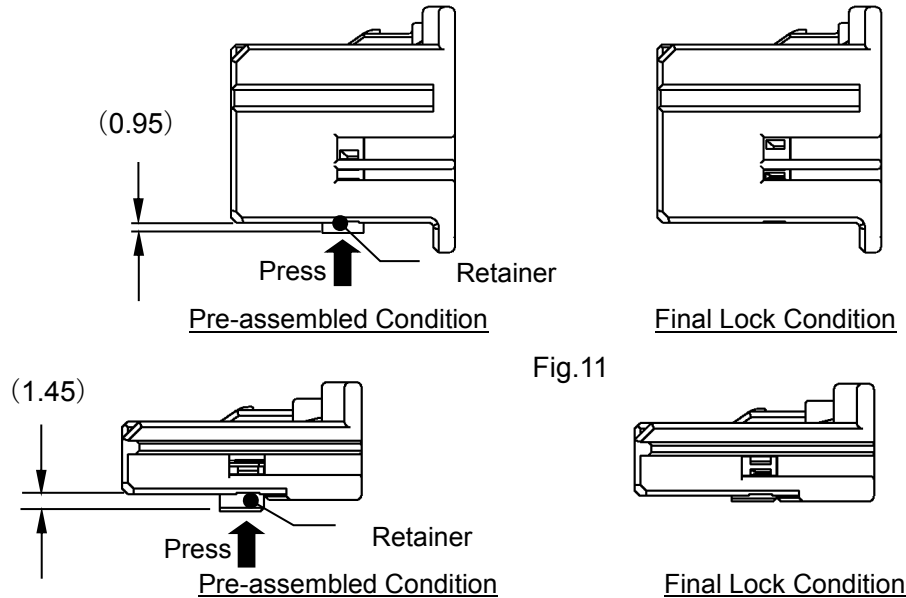


Fig.10

(4) By pulling the contact by 20N MAX, check to make sure that the contact can not be withdrawn.

6.2 Double Lock (Secondary Lock) Operation

(1) After insertion of all of the contacts, press the retainer for final lock condition. The double lock operation is finished by confirmation that the retainer is kept in the final condition by the 2 projections.



(2) The double lock operation can not be completed if there are any half-inserted contacts. When the retainer can not be pressed to the final condition, do not press by force, find the half inserted contact, and insert it to proper position. See para.6.1.

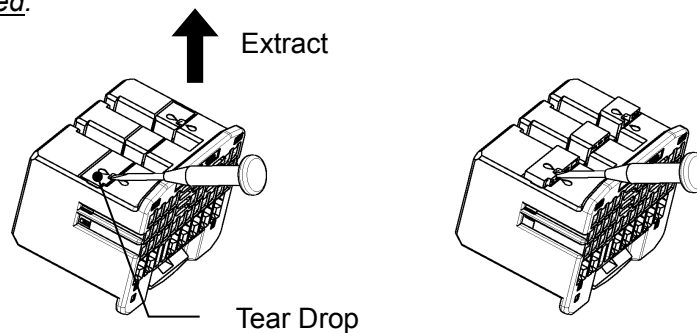
6.3 How to Unlock Retainer from Final Lock Condition

When the female contact requires insertion or extraction, the retainer must be in the pre-assembled condition. The insertion or extraction can not be done in final lock condition.

(1) Insert the jig, 1mm blade screw driver, into the window of the retainer pointed by the tear drop mark. See Fig.13.

(2) Draw out the retainer, about 0.95mm (1ROW-TYPE:1.45mm), to pre-assembled condition.

NOTE Do not extract the retainer more than appropriate length. Otherwise the retainer may be damaged.



6.4 How to Extract Female Contact

- (1) Confirm the retainer is in pre-assembled condition. When the retainer is in final lock condition, it must be changed to pre-assembled condition. See para.6.3. The female contact can not be extracted in final assembled condition.
- (2) To extract the female terminals, using the extraction tool PN; 1729375-1 is recommended. Follow the instruction sheet No. 411-78139 to use the extraction tool.

If the extraction tool can not be prepared, Insert a precision screw driver which is 1.4mm~1.8mm width into the proper hole to the end, remove the loaded contact from housing while pull the crimped wire.

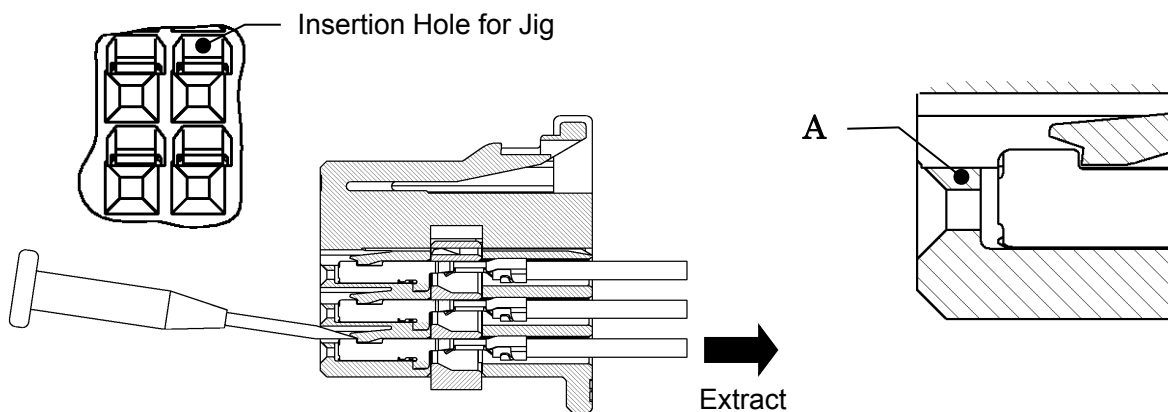


Fig.14

NOTE Please do not apply unnecessary force to the wall "A". It becomes the cause of breakage.

NOTE If only insert the jig, the primary terminal latch will be released. Take care not to apply unnecessary force, otherwise the deformation of the jig occurs or it is cause for falling of retention force by the deformation of the contact lance. And do not repeat extract more than 10 times, otherwise the retention force has fallen.

- (3) When the female contact can not be extracted, do not pull the wire by force but ensure the housing lance is unlocked.

NOTE Take care not to insert the screwdriver or the extractive jig into the female contact. If those should be inserted, the female contact must be replaced. Re-using is never allowed.

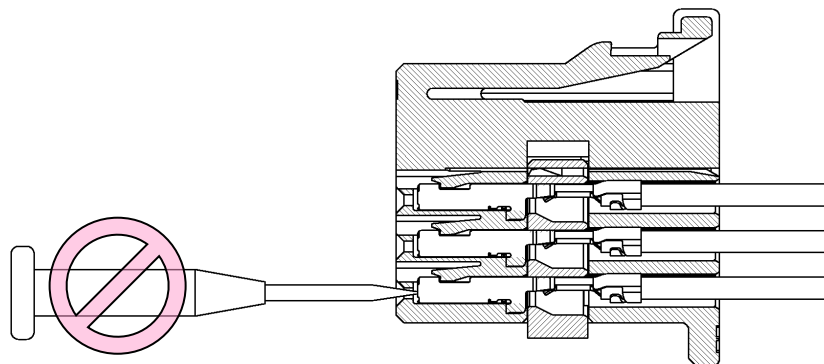


Fig.15

6.5 Harness Control

6.5.1 Handling

Take care not to apply unnecessary force or shock to the connector or the wire.

6.5.2 Taping up Wires

The wires must not be taped up more than 30mm from the end of the housing to avoid applying unnecessary force to the wires.

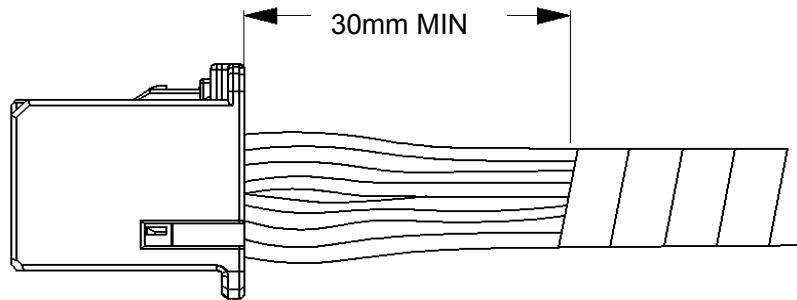


Fig.16

6.5.3 Electric Circuit Check

- (1) For making a check on electric circuit, the applicable mating half or equivalent product should be used.
- (2) When servicing the connector, never insert an individual probe pin for the inspection into the female contact. The pin must be probed from the wire side.

NOTE If the probe pin should be inserted, the female contact must be replaced.

- (3) Please report to our company the treatment device for energizing inspection use.

6.5.4 Storage

Avoid storing the connector in a moist or dusty place. Stock the connector away from direct sunlight.

6.5.5 Shipping and Carrying

The connector should be used with the proper packaging to prevent the ingress of dust, moisture, etc.

7. Mating and Extraction of Connector

7.1 Mating of Connector

- (1) Check to make sure that the contact is inserted into the housing in proper condition, the wire is taped up from proper position, and the retainer is in final lock condition. If the retainer is in pre-assembled condition, it must be changed to be in final lock condition. See para.6.2
- (2) And then check the contact and the housing into the male housing for defects, deformation, discoloration, damage, rust, crack, deficit, etc.

NOTE The connector must be replaced if any defects are found.

- (3) Insert the proper female housing into the male housing straight with same direction as shown in Fig.17. The operation is finished when you hear the click sound and can not insert further.

When you can not insert the housing, do not insert by force, and check the items in (1), (2).

NOTE At the insertion operation, take care not to apply force except in the insertion direction.

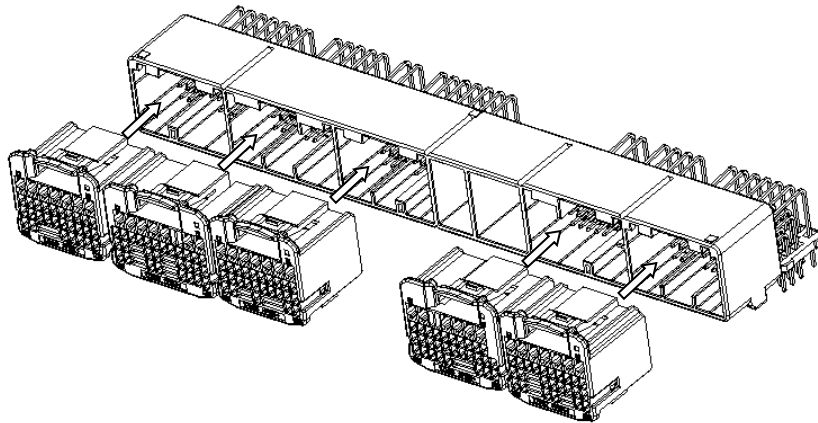


Fig.17

- (4) By pulling the female connector lightly, check to make sure that the connector can not be with drawn.

7.2 Extraction of Connector

Grip the female housing, and then draw straight out while pressing down the locking lever. When the housing can not be drawn out, do not pull it by force but check to make sure if the locking mechanism is released.

NOTE At the extraction operation, take care not to apply force except in the extraction direction.

NOTE Do not pull the wire only.

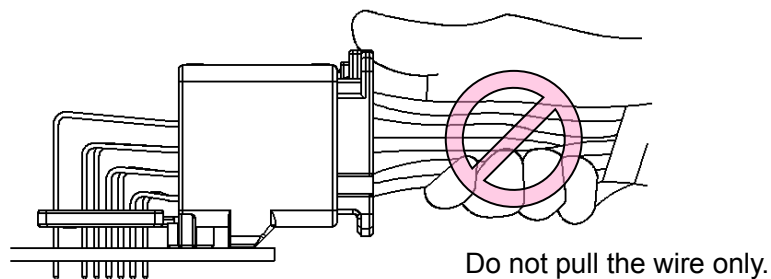


Fig.18

7.3 General Attention Matters

- (1) Do not mate and extract the connector unnecessarily.
- (2) Do not insert any objects except the proper connector.
- (3) At mating/extraction operation, or after mating operation, take care not to apply unnecessary force or shock to the wire and the connector.