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## 2x3 POS. GENERATION Y CONNECTOR

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### TABLE OF CONTENTS

#### 1 GENERAL

##### 1.1 PURPOSE

##### 1.2 CUSTOMER DRAWINGS

##### 1.3 DELIVERY CONDITION

###### 1.3.1 2x3 POS. FEMALE CONNECTOR AND SPACER

###### 1.3.2 2x3 POS. FEMALE CONNECTOR AND SPACER with CPA

###### 1.3.3 TERMINALS FOR 2x3 POS. FEMALE CONNECTOR

##### 1.4 REQUIREMENTS

##### 1.5 MATERIALS

#### 2 CONNECTOR OVERVIEW

##### 2.1 OVERVIEW

##### 2.2 TERMINAL INSERTION / REMOVAL INSTRUCTIONS

###### 2.2.1 INSERTION OF FEMALE TERMINAL

###### 2.2.2 REMOVAL OF FEMALE TERMINAL

##### 2.3 APPLICABLE WIRES

##### 2.4 TPA (SPACER) INSERTION / REMOVAL INSTRUCTIONS

#### 3 MATING AND UNMATING OF THE 2x3 POS. CONNECTORS

##### 3.1 MATING OF THE CONNECTORS

##### 3.2 UNMATING OF THE CONNECTORS

## 1 GENERAL

### 1.1 PURPOSE

THIS SPECIFICATION DESCRIBES HOW TO HANDLE THE 2X3 POS. CONNECTOR COMPONENTS.



### 1.2 CUSTOMER DRAWINGS

THIS APPLICATION SPECIFICATION IS BASED ON THE LATEST VALID CUSTOMER DRAWING.

C\_2208798 ASSY FEMALE 2x3 POS. CONNECTOR

### 1.3 DELIVERY CONDITION

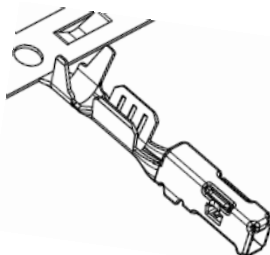
#### 1.3.1 2x3 POS. FEMALE CONNECTOR AND SPACER

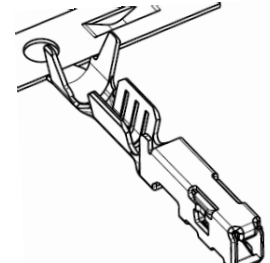
ASSY 2x3 POS. FEMALE CONNECTOR  WITHOUT CPA	9-2208798-1 – KEYING A COLOUR: BLACK  9-2208798-2 – KEYING B COLOUR: BLACK  9-2208798-4 – KEYING D COLOUR: BLACK  9-2208798-5 – KEYING E COLOUR: BLACK	
ASSY 2x3 POS. FEMALE CONNECTOR  WITHOUT CPA	1-2208798-1 – KEYING A COLOUR: GREEN  1-2208798-2 – KEYING B COLOUR: GREY  1-2208798-3 – KEYING C COLOUR: BROWN  1-2208798-4 – KEYING D COLOUR: BLUE	

### 1.3.2 2x3 POS. FEMALE CONNECTOR AND SPACER with CPA

<p>ASSY 2x3 POS. F EMALE CONNECTOR</p> <p>WITH CPA</p>	<p>0-2208798-5 – KEYING A COLOUR: BLACK</p> <p>0-2208798-6 – KEYING B COLOUR: BLACK</p> <p>0-2208798-3 – KEYING C COLOUR: GREEN</p>	
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### 1.3.3 TERMINALS FOR 2x3 POS. FEMALE CONNECTOR

<p>GENERATION Y 0.64mm TERMINAL Seald Version</p>	<p>TE-PN: 1-1456841-1  1-1456841-2  1-1456841-5  1-1456841-6</p>	
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<p>GENERATION Y 0.64mm TERMINAL Unseald Version</p>	<p>TE-PN: 1-1456574-1  1-1456574-2  1-1456574-5  1-1456574-6</p>	
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## 1.4 REQUIREMENTS

### 1.4.1 Safety

Do not stack product shipping containers so high that the containers buckle or deform.

### 1.4.2 Storage

#### A. Ultraviolet Light

Prolonged exposure to ultraviolet light may deteriorate the chemical composition used in the connector material.

#### B. Shelf Life

The connectors should remain in the shipping containers until ready for use to prevent deformation to the components. The connectors should be used on a first in, first out basis to avoid storage contamination that could adversely affect performance.

## 1.5 Materials

The connector housing is made from Nylon (Glass Fiber 35%), the connector TPA is made from PBT (Glass Fiber 30%). the connector CPA is made from PBT (Glass Fiber 20%).The contact is made from copper alloy .  
Materials are also shown on latest customer drawing.

## 2 CONNECTOR OVERVIEW

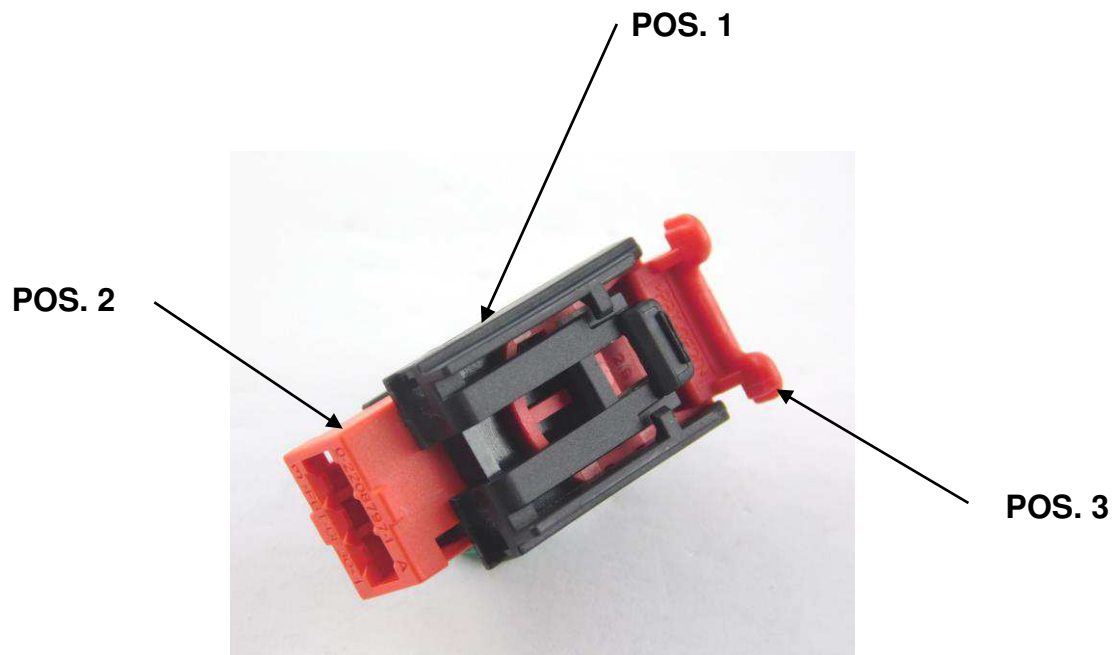
### 2.1 OVERVIEW

#### ASSY FEMALE 2x3 POS. CONNECTOR

**POS 1:** FEMALE HOUSING

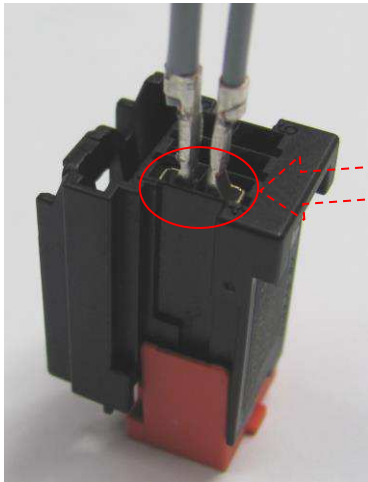
**POS 2:** FEMALE SPACER

**POS 3:** FEMALE CPA



## 2.2 TERMINAL INSERTION / REMOVAL INSTRUCTIONS

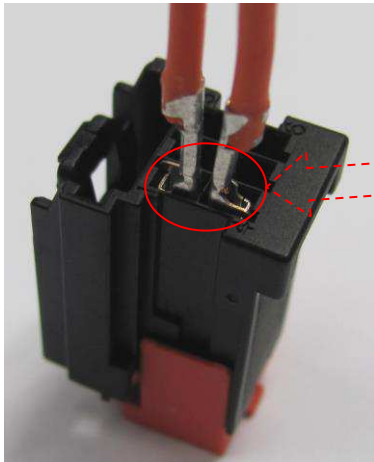
### 2.2.1 INSERTION OF FEMALE TERMINAL



Seald Version

ORIENT THE CONTACTS ALWAYS AS SHOWN ON THE PHOTO.

THE ORIENTATION FEATURE (J-HOOK) SHOULD BE ORIENTED TOWARDS MIDDLE OF THE CONNECTOR.



ORIENT THE CONTACTS ALWAYS AS SHOWN ON THE PHOTO.

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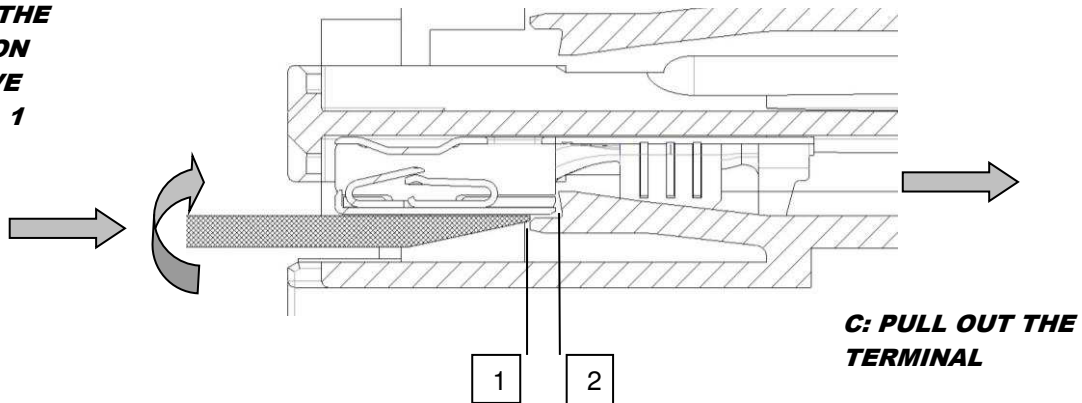
THE ORIENTATION FEATURE SHOULD BE ORIENTED TOWARDS MIDDLE OF THE CONNECTOR.

**PUSH ALL TERMINALS INTO THE CONNECTOR UNTIL THE LOCKING IS FELT OR HEARD BY AN AUDIBLE CLICK**

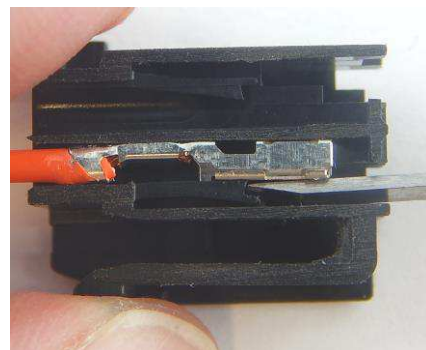
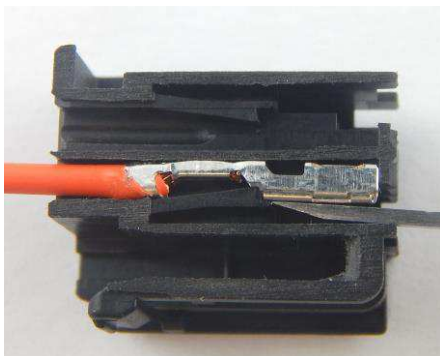
## 2.2.2 REMOVAL OF FEMALE TERMINAL

**TPA ( SPACER ) MUST BE REMOVED BEFORE CONTACT REMOVAL**

**A: INSERT THE  
EXTRACTION  
TOOL, MOVE  
FROM POS. 1  
TO POS. 2**



**B: MOVE THE EXTRACTION  
TOOL SIDEWARDS TO RELEASE  
THE LOCKING FINGER**



**EXTRACTION TOOLS FOR FEMALE TERMINALS:  
GENERATION Y 0.64 - TE-NO. 1452426-1**

## 2.3 APPLICABLE WIRES

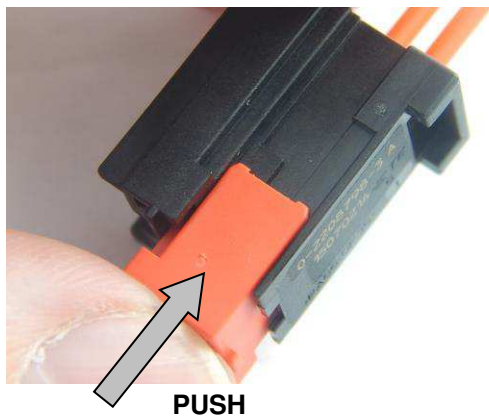
PLEASE REFER TO LATEST CONTACT CUSTOMER DRAWING

## 2.4 TPA - (SPACER) INSERTION / REMOVAL INSTRUCTION

### FEMALE HOUSING

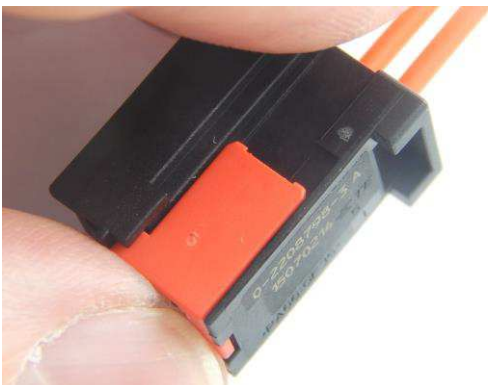
DELIVERY CONDITION OF THE FEMALE CONNECTOR WITH THE FRONT LOADED TPA ( SPACER ) IN PRESET POSITION. THE FRONT LOADED TPA (SPACER) IS ELEVATED.

1.



DO NOT PUSH THE TPA (SPACER) FURTHER THAN THIS POSITION BEFORE CONTACT MOUNTING

2.

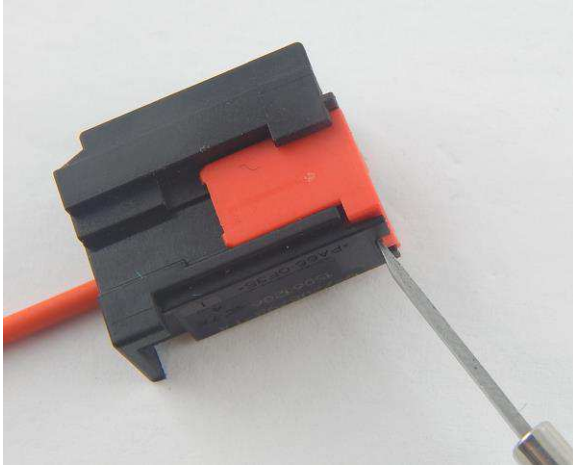


AFTER CONTACT MOUNTING, THE TPA (SPACER) SHOULD BE PUSHED IN END POSITION.

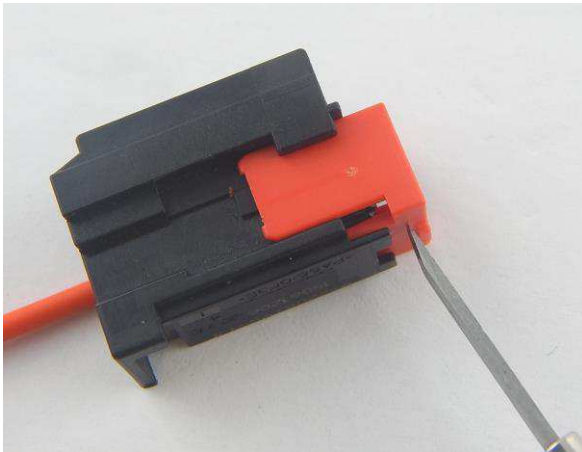
THE FRONT LOADED TPA (SPACER) IS FULLY INSERTED.

## REMOVAL OF THE TPA (SPACER) FROM FEMALE HOUSING

1.



**INSERT THE SCREW DRIVER OR THE EXTRACTION TOOL 1452426-1 AS SHOWN TO UNLOCK.**



**AND LIFT THE TPA (SPACER)**

### 3. MATING AND UNMATING OF THE 2X3 POS. CONNECTORS

#### POLARISATION FEATURES ( MECHANICAL AND COLOUR KEYING )

##### POLARISATION FEATURES



9-2208798-1 Cod.A



9-2208798-2 Cod.B

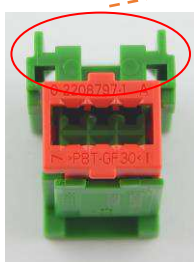


9-2208798-4 Cod.D

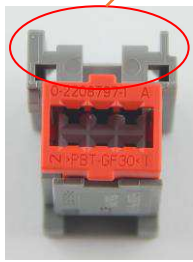


9-2208798-5 Cod.E

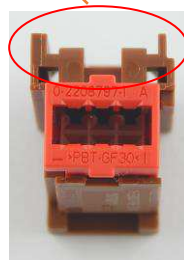
##### POLARISATION FEATURES



1-2208798-1 Cod.A



1-2208798-2 Cod.B



1-2208798-3 Cod.C

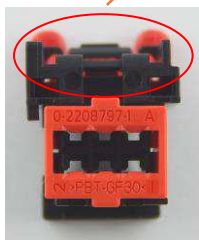


1-2208798-4 Cod.D

##### POLARISATION FEATURES



0-2208798-5 Cod.A



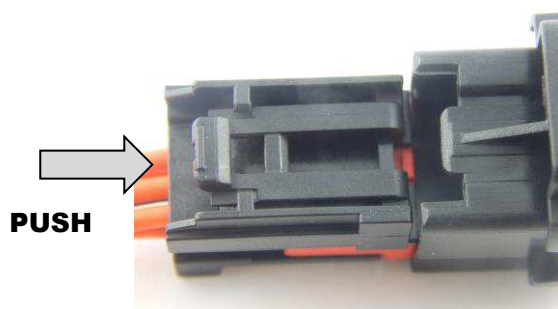
0-2208798-6 Cod.B



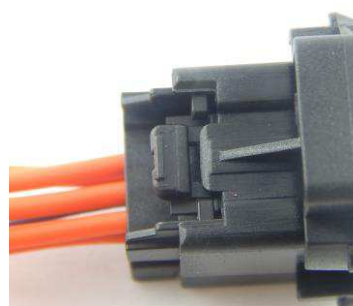
0-2208798-3 Cod.C

### 3.1 MATING OF THE CONNECTORS

#### 3.1.1 CONNECTORS WITHOUT CPA



1.

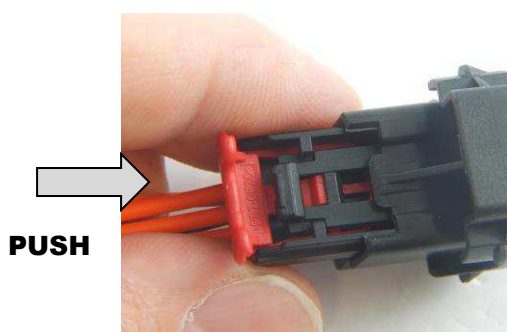


2.

MATE THE CONNECTORS SUCH AS THE POLARISATION FEATURES FIT TOGETHER UNTIL IT STOPS AND A CLIC IS HEARD

DO NOT BEND THE WIRES DURING ASSEMBLY! DO NOT MATE PARTS BY PUSHING ON WIRES AND CPA! MATING FORCE SHOULD BE APPLIED ON HOUSINGS.

#### 3.1.2 CONNECTORS WITH CPA



1.

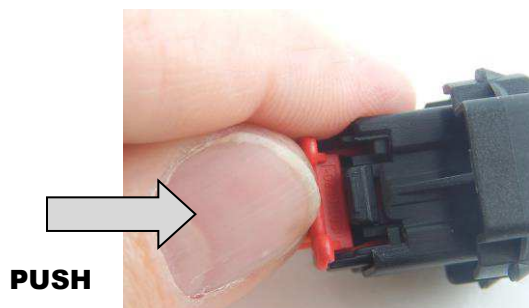


2.

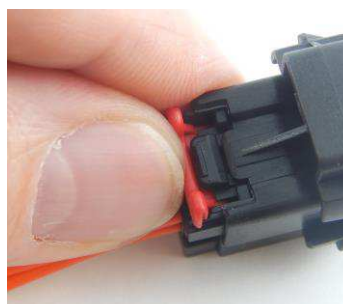
MATE THE CONNECTORS SUCH AS THE POLARISATION FEATURES FIT TOGETHER UNTIL IT STOPS AND A CLIC IS HEARD

PUSH THE CONNECTOR HOUSING ONLY FOR THE MATING PROCESS. PLEASE DO NOT BEND THE WIRES AND DO NOT PUSH THE CPA DURING THE MATING PROCESS

### 3.1.2 CONNECTORS WITH CPA



**3.**

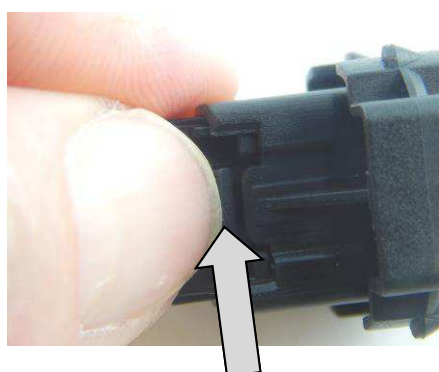


**4.**

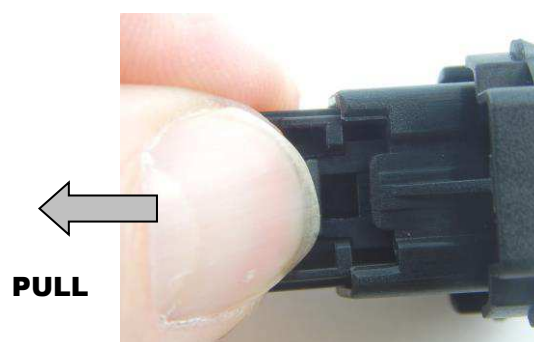
MATE THE CPA SUCH AS UNTIL IT STOPS  
AND A CLIC IS HEARD

## 3.2 UNMATING OF THE CONNECTOR.

### 3.2.1 CONNECTORS WITHOUT CPA

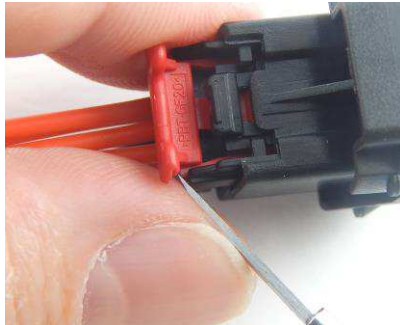


**1.**



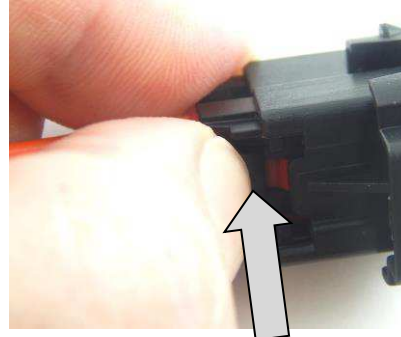
**2.**

### 3.2.2 CONNECTORS WITH CPA



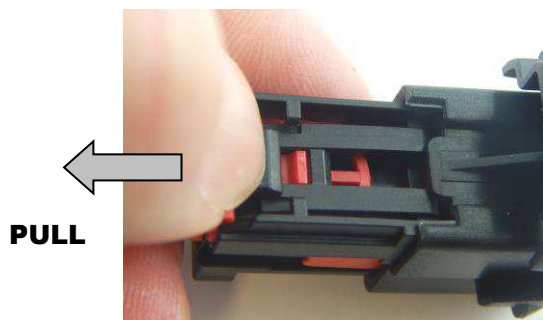
**LIFT THE CPA**

**1.**



**PUSH**

**2.**



**PULL**

**3.**