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## 2-8pos. MCON 1.2 – LL Connector, Sealed with SWS

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#### 4. DOCUMENT CHANGE HISTORY

## 1 GENERAL

### 1.1 PURPOSE

THIS SPECIFICATION DESCRIBES HOW TO HANDLE THE COMPONENTS OF THE CONNECTORS 2- TO 8 POS., MCON 1.2 WITH SWS (Single Wire Seal)

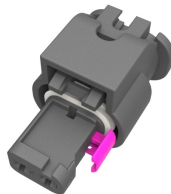
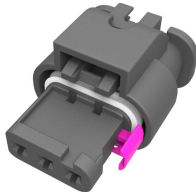
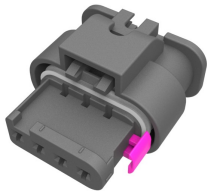
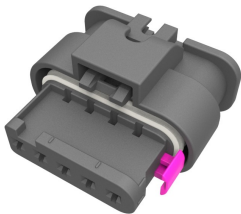
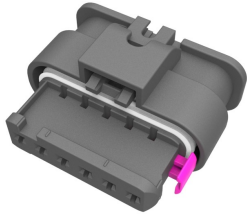
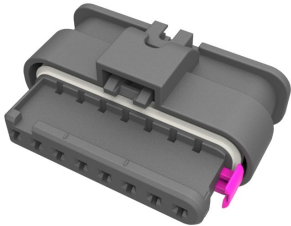
### 1.2 CUSTOMER DRAWINGS

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

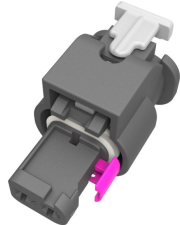
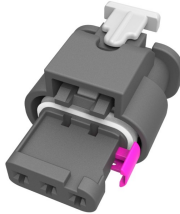
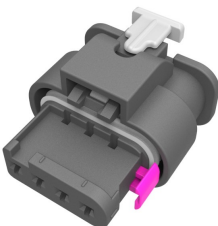
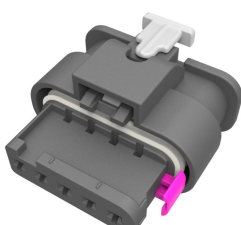
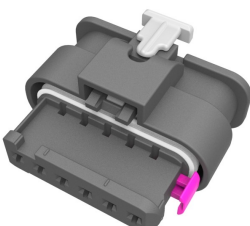
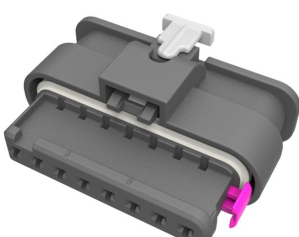
INTERFACE SPECIFICATION:  
SEE TYCO ELECTRONICS FRAME SPECIFICATION: **114-18679-3**

### 1.3 DELIVERY CONDITION

#### 1.3.1 CONNECTORS WITHOUT CPA

|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| 2pos. MCON 1.2 – LL Connector |    |
| 3pos. MCON 1.2 – LL Connector |    |
| 4pos. MCON 1.2 – LL Connector |   |
| 5pos. MCON 1.2 – LL Connector |  |
| 6pos. MCON 1.2 – LL Connector |  |
| 8pos. MCON 1.2 – LL Connector |   |

### 1.3.2 CONNECTORS WITH CPA

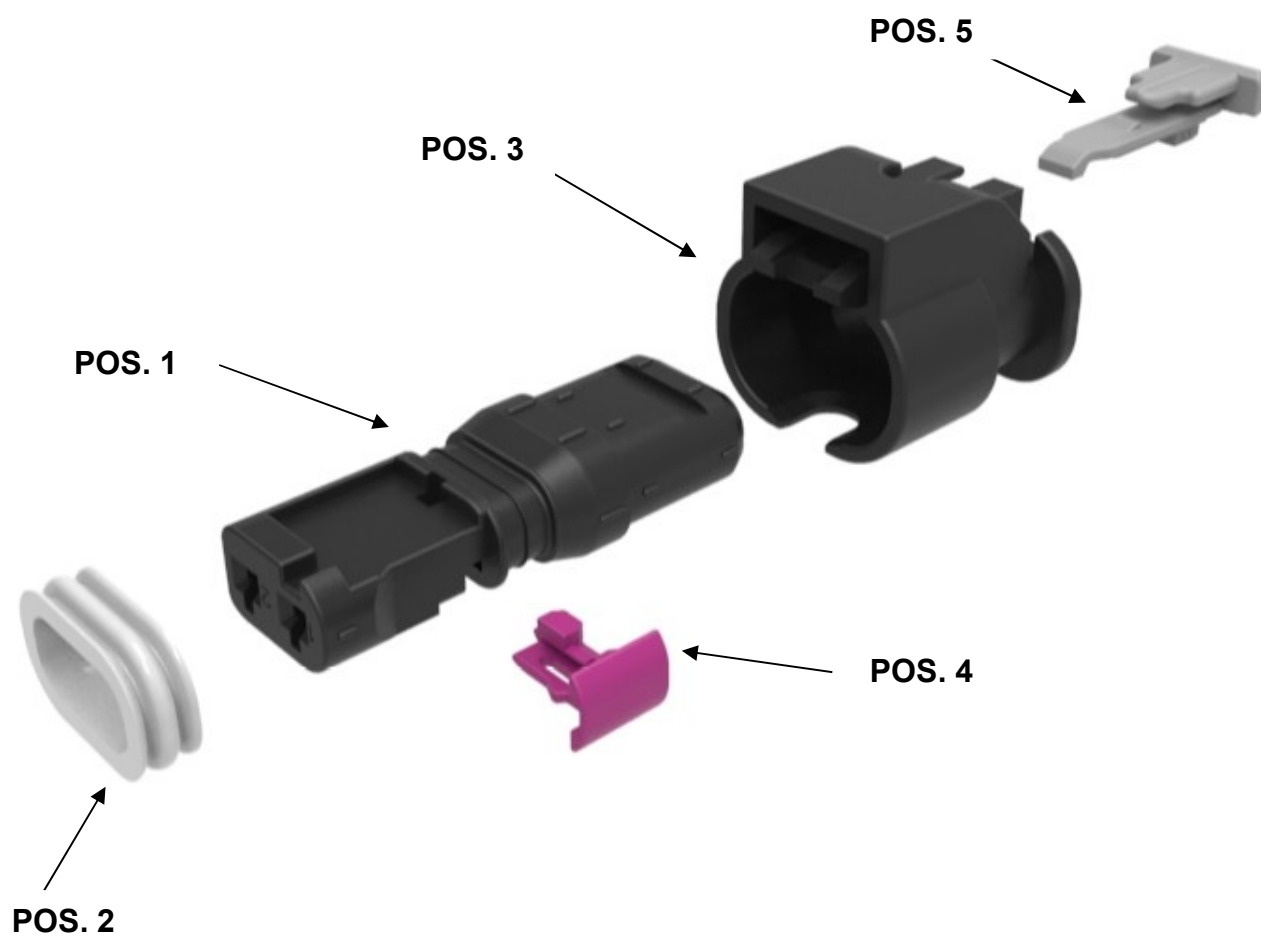
|                               |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| 2pos. MCON 1.2 – LL Connector |    |
| 3pos. MCON 1.2 – LL Connector |    |
| 4pos. MCON 1.2 – LL Connector |   |
| 5pos. MCON 1.2 – LL Connector |  |
| 6pos. MCON 1.2 – LL Connector |  |
| 8pos. MCON 1.2 – LL Connector |   |

### 1.3.3 TERMINALS

|                         |                                                                                                                                        |                                                                                     |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| MCON 1.2 – LL Terminals | <p>CUSTOMER<br/>DRAWING<br/><b>1452674</b></p> <p>APPLICATION SPEC.<br/><b>114-18464</b></p> <p>PRODUCT SPEC.<br/><b>108-18782</b></p> |  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|

## 2 CONNECTOR 2 TO 8POS, MCON 1.2. WITH SWS

### 2.1 ASSEMBLY OF THE CONNECTORS (VALID FOR ALL PIN COUNT VERSIONS)



POS. 1: Receptacle Housing

POS. 2: Peripheral Seal

POS. 3: Protection Cover

POS. 4: Retainer

POS. 5: CPA

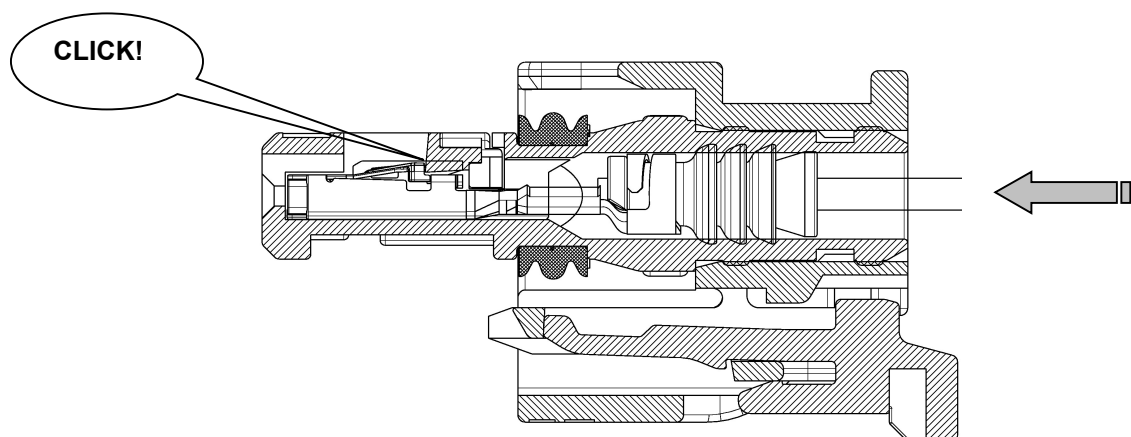
## 2.2 TERMINAL INSERTION INSTRUCTIONS

INSERTION DIRECTION

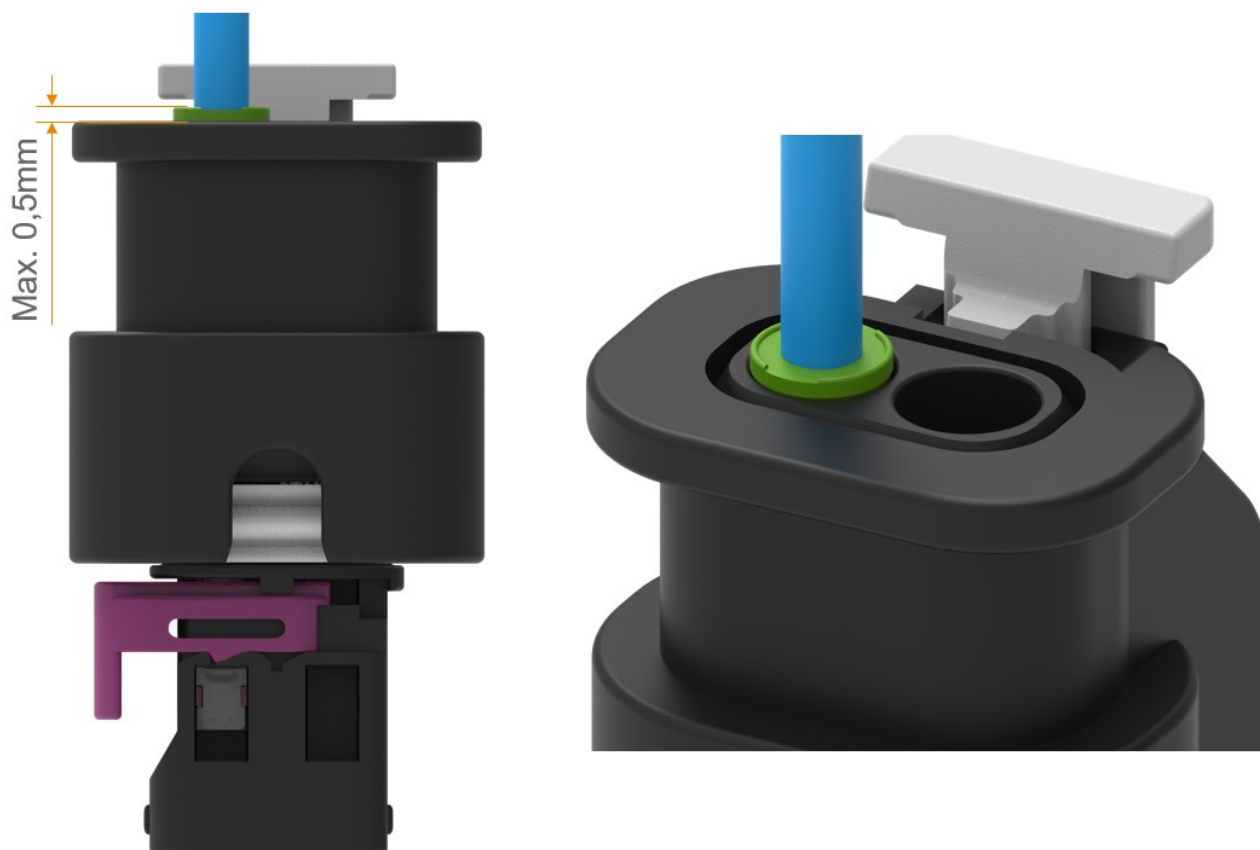
ORIENTATION FEATURE OF THE TERMINAL.



INSERT TERMINAL UNTIL AN AUDIBLE CLICK IS HEARD OR THE LOCK IS FELT



IN CASE OF 1mm<sup>2</sup> CABLE WITH 180° CABLE EXIT, SWS PROTRUSION DURING TERMINAL INSERTION OF **MAX. 0.5mm** IS ALLOWED. THIS IS ALLOWED FOR THE SEAL COLLAR ONLY. THE SEALING LIPS MUST REMAIN IN THE CONTACT CAVITY AT ALL TIMES.



## 2.3 APPLICABLE WIRES

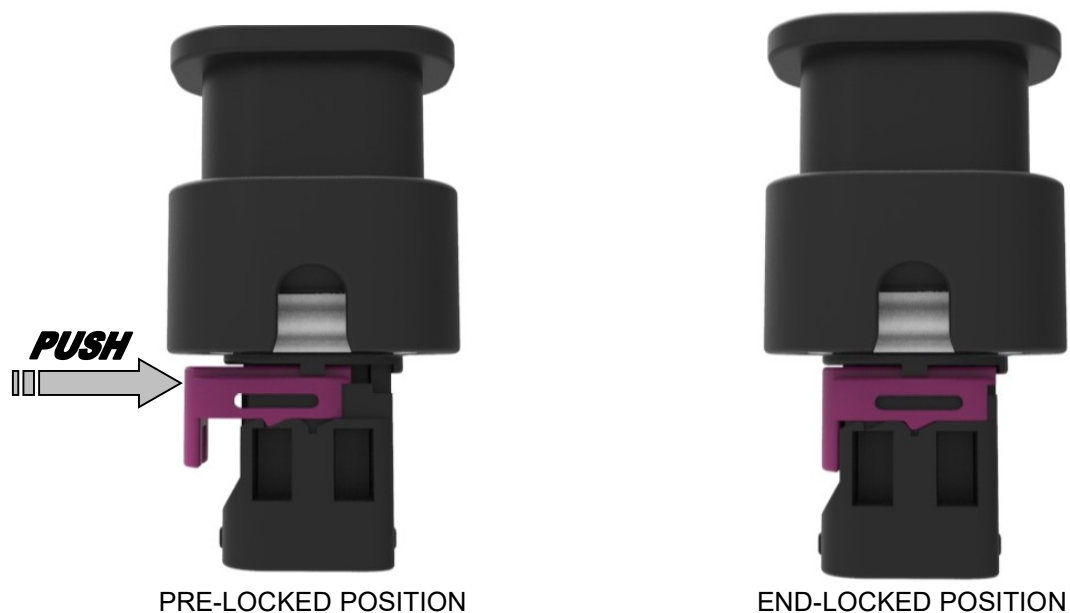
SEE ALSO THE CUSTOMER DRAWINGS **1452674**

| Accessories         |         |                 |              |                  |           |                          |      |
|---------------------|---------|-----------------|--------------|------------------|-----------|--------------------------|------|
| Wire                |         |                 | Part numbers |                  |           |                          |      |
| Type<br>(DIN 76772) | Ø       | mm <sup>2</sup> | MCON 1.2 LL  | Single wire seal |           | Blind plug<br>PN / Color |      |
| FLR & ACW           | 1.2-1.4 | 0.35            | 7-1452665-3  | Yellow           | 967067-2  | 967056-1                 | Blue |
|                     | 1.4-1.6 | 0.50            | 7-1452668-3  | Green            | 967067-1  |                          |      |
|                     | 1.7-1.9 | 0.75            | 7-1452668-3  | Green            | 967067-1  |                          |      |
|                     | 1.9-2.1 | 1.00            | 7-1452671-3  | Green            | 967067-1  |                          |      |
|                     | 2.2-2.4 | 1,50            | 7-1452671-3  | Green            | 2287497-1 |                          |      |



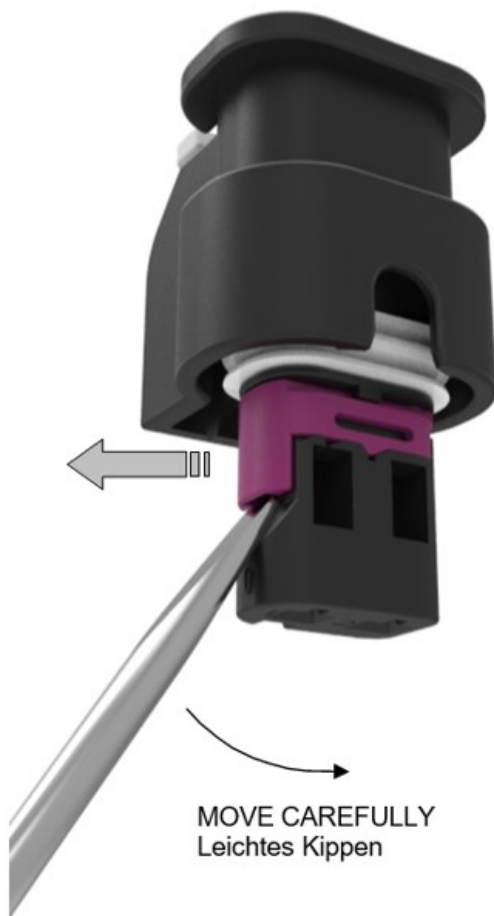
## 2.4 RETAINER ENGAGE INSTRUCTIONS

### INSERTION OF THE RETAINER TO END-LOCKED POSITION



## 2.5 RETAINER DISENGAGE INSTRUCTIONS

PLACE THE EXTRACTION TOOL (E.G. SCREWDRIVER) IN THE SHOWN PLACE TO DISENGAGE THE RETAINER.



MOVE CAREFULLY  
Leichtes Kippen

RETAINER ONLY TO MOVE TO THE PRE-LOCKED POSITION



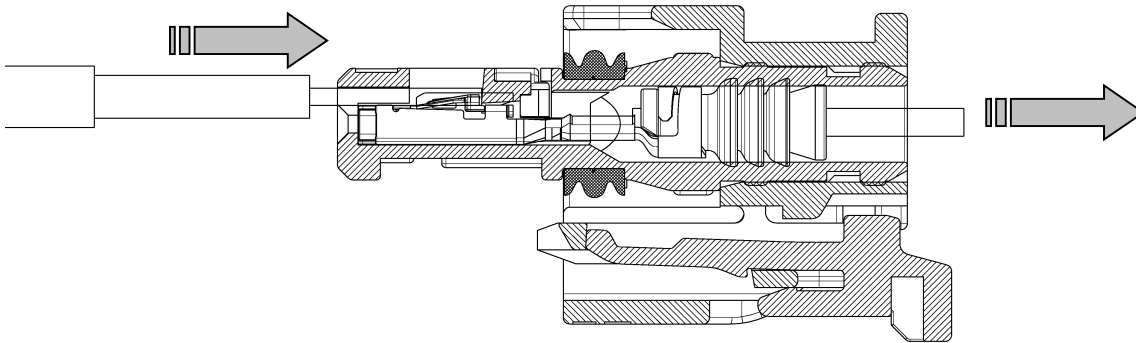
END-LOCKED POSITION  
Endrastposition



PRE-LOCKED POSITION  
Vorrastposition

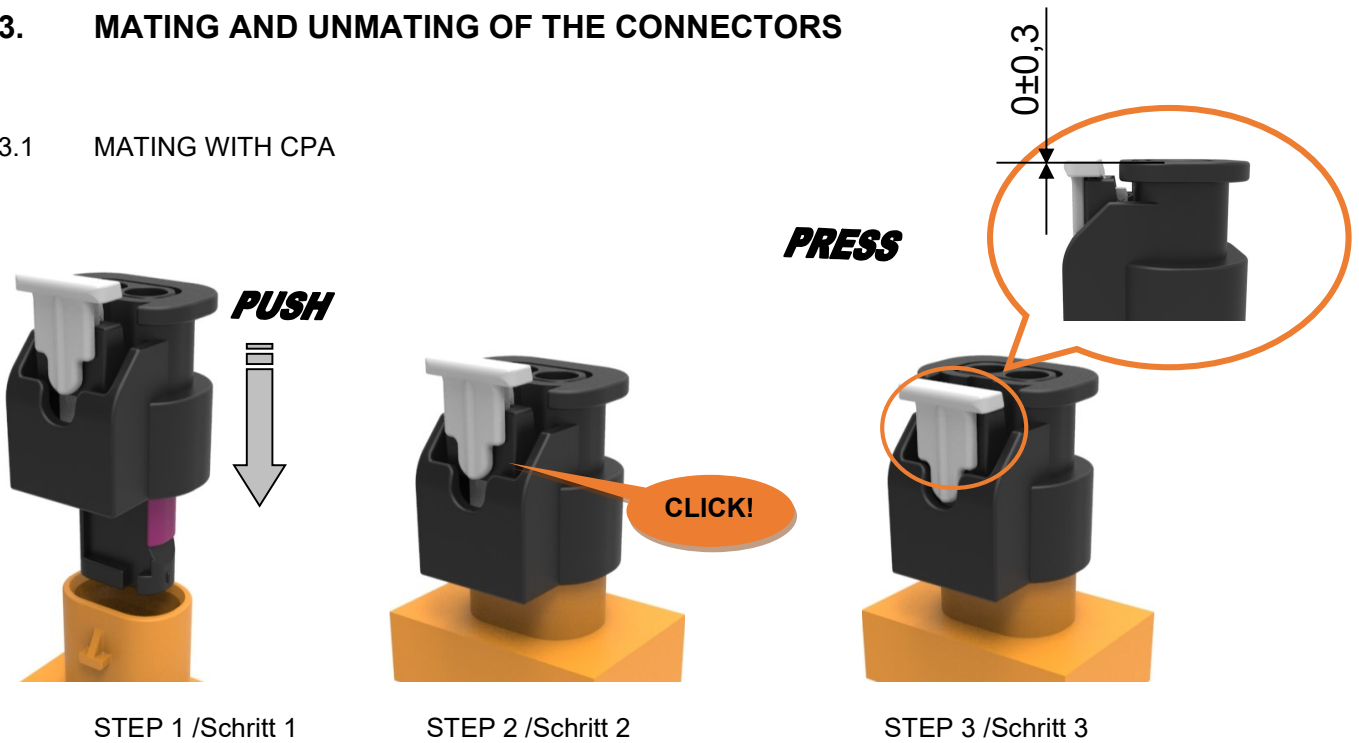
## 2.6 TERMINAL REMOVAL INSTRUCTIONS

INSERT THE EXTRACTION TOOL (TYCO-PN: 5-1579007-3) TO LOCKING HOOK. THE TERMINALS CAN BE REMOVED BY PULLING THE CABLE AND SIMULTAENEOUSLY BENDING THE LOCKING HOOK

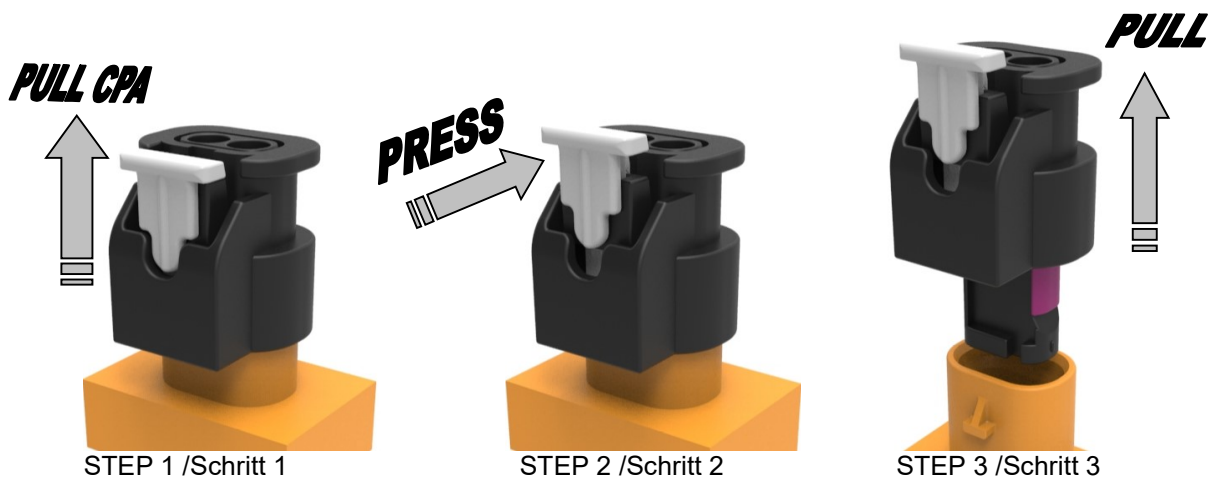


### 3. MATING AND UNMATING OF THE CONNECTORS

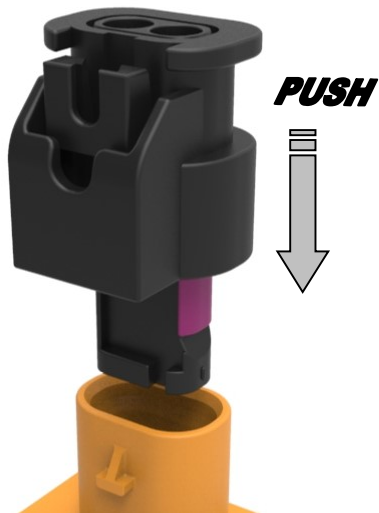
#### 3.1 MATING WITH CPA



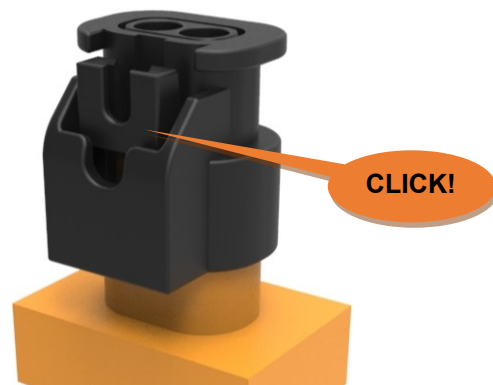
#### 3.2 UNMATING WITH CPA



### 3.3 MATING WITHOUT CPA

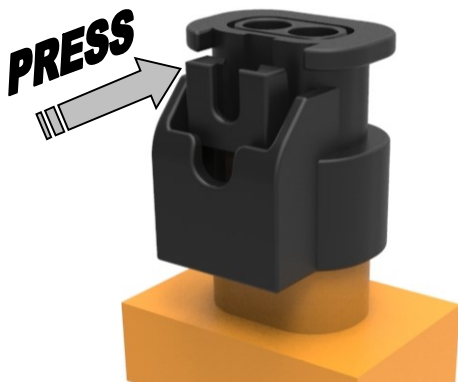


STEP 1

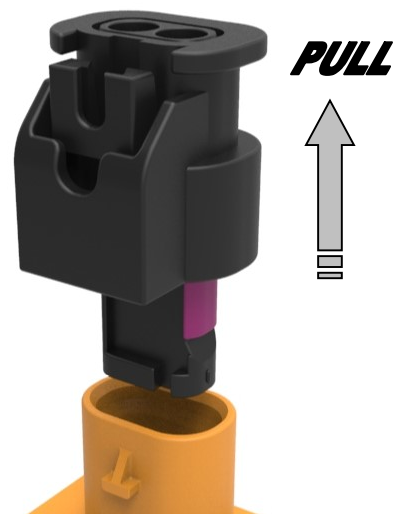


STEP 2

### 3.4 UNMATING WITHOUT CPA



STEP 1



STEP 2

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**DOCUMENT CHANGE HISTORY**

| <b>CHANGE<br/>HISTORY</b> | <b>NAME</b> | <b>DATE</b> | <b>REV</b> | <b>CHANGE</b>                                                                |
|---------------------------|-------------|-------------|------------|------------------------------------------------------------------------------|
|                           | -           | 18SEP2007   | A          | Initial document                                                             |
|                           | Sz. Nemes   | 11AUG2013   | A1         | Point 1.3.3 - 1.3.6 added                                                    |
|                           | Sz. Nemes   | 26SEP2019   | A2         | Cosmetical update<br>Wire insulation info added for 1,5mm <sup>2</sup> cable |
|                           | Sz. Nemes   | 13DEC2023   | A3         | Information on SWS protrusion added                                          |
|                           |             |             |            |                                                                              |