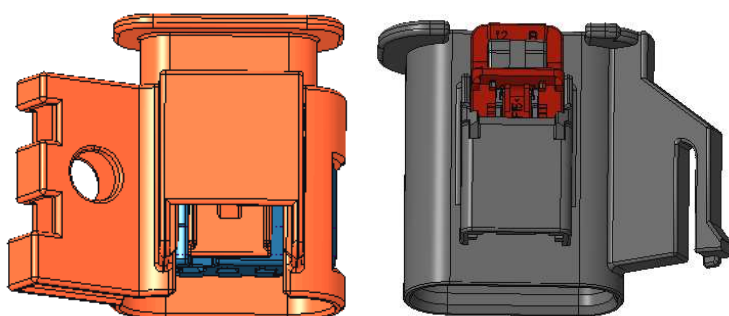




MCON 1.2 4P HVIL SEALED CONNECTOR APPLICATION SPECIFICATION

MCON 1.2 4 位高压互锁防水型连接器应用规范



				PR: C. CHEN DATE: 29JUL2022	 TE Connectivity Shanghai, China		
				CHK: A. DANG DATE: 29JUL2022			
1	Preliminary	C. C	29JUL 2022	APP: J. ZONG DATE: 29JUL2022	Document No.: 114-160311	LOC: ES	REV: 1
LTR	REVISION RECORD	PR	DATE				



MCON 1.2 4P HVIL SEALED CONNECTOR

Contents/目录

1	SCOPE 适用范围	3
1.1	Content 内容	3
1.2	Processing notes 加工说明	3
2	APPLICABLE DOCUMENTS 适用文件	3
2.1	TE Connectivity documents 泰科电子文件	3
2.1.1	Customer drawings 客户图纸	3
2.1.2	Specification 规范	3
2.2	General documents 通用文档	4
3	DELIVERY AND PACKAGING 交货和包装	4
3.1	Components 零部件	4
3.2	Packaging and Storage 包装和存储	5
4	ASSEMBLY INSTRUCTIONS 组装说明	5
4.1	Plug HSG assembly 母端组装	5
4.1.1	Insertion MCON 1.2 terminal MCON 1.2 端子的插入	5
4.1.2	Locking TPA 锁上端子二次锁	6
4.2	Mating plug hsg assy with tab hsg assy 连接公母端	7
4.2.1	Mating to pre-position of connectors 装配到预锁位置	7
4.2.2	Mating from pre-position to end position 预装位置组装到位	7
4.3	Locking CPA 锁上 CPA	8
5	DISASSEMBLY INSTRUCTIONS 拆装说明	9
5.1	Open CPA to pre-lock position 将 CPA 退回预锁位置	9
5.2	Unmating connector to pre-lock position 将连接器退回到预锁位置	9



1 SCOPE 适用范围

1.1 Content 内容

This application specification includes the guidelines to be followed during assembly, installation and disassembly of MCON 1.2 4P HVIL sealed connector.

本规范用于指导 MCON 1.2 4 位高压互锁防水连接器的组装，安装和拆卸。

1.2 Processing notes 加工说明

The processor is responsible for ensuring the quality of the manufacturing process and the proper function of the system. The warranty and liability is excluded, if quality deficiency or damages occurs by failing compliance to this specification or using not specified, not released tools or not released connector components.

加工者负责确保制造过程的质量和系统的正常功能。如果由于因未遵守本规范或使用未定义的、发布的工装或未发布的连接器组件而导致质量异常或损坏，则不承担保修和责任。

2 APPLICABLE DOCUMENTS 适用文件

The following mentioned documents are part of this specification. If there is a conflict between the information contained in the documents and this specification or with any other technical documentation supplied, the last valid customer drawings takes preference.

以下提到的文件是本说明书的一部分。如果文档中包含的信息与本规范或提供的任何其他技术文档之间存在冲突，则以最新有效的客户图纸优先。

2.1 TE Connectivity documents 泰科电子文件

This application specification is based on the latest valid customer drawings.

本应用规范基于最新的有效客户图纸。

2.1.1 Customer drawings 客户图纸

Table1 表 1

Component 零件	Drawing No. 图纸编号
MCON 1.2 4POS SEALED REC HSG ASSEMBLY MCON 1.2 4 位母端防水接插件	2383203
4POS 1.2X0.6 SEALED TAB HSG ASSEMBLY 1.2X0.6 4W 公端接插件	2383206

2.1.2 Specification 规范

Table2 表 2

Specifications 规范	Description 说明
108-18782	Product Specification MCON 1.2 Contact System MCON1.2 端子产品规范
114-18464	Application Specification MCON 1.2 mm Contact System MCON1.2 端子压接规范

2.2 General documents 通用文档

NA

3 DELIVERY AND PACKAGING 交货和包装

3.1 Components 零部件

The connector contains below parts. 连接器包含以下零件。

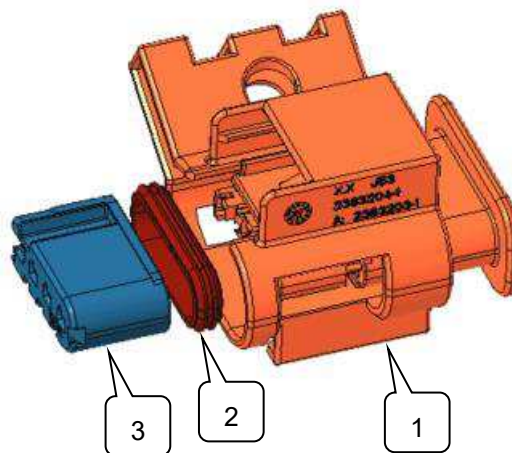


Figure1 Components of plug side 图 1 母端零件

Table3 表 3

Item No.	Description	Quantity
1	Plug HSG	1
2	Peripheral seal	1
3	TPA	1

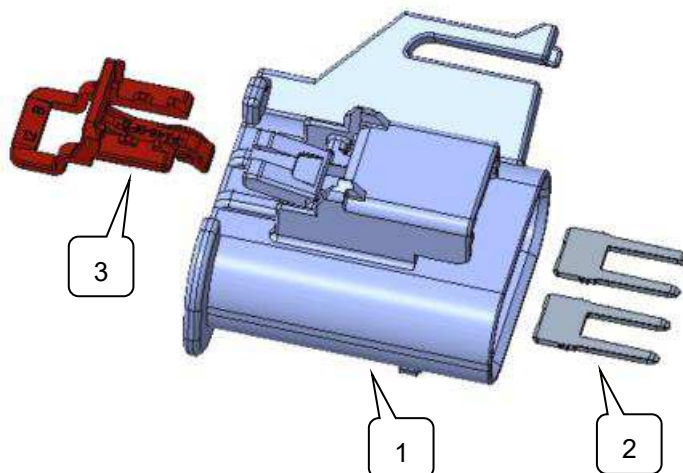


Figure2 Components of tab side 图 2 公端零件

Table4 表 4

Item No.	Description	Quantity
1	Tab HSG	1
2	Short pin	2
3	CPA	1

3.2 Packaging and Storage 包装和存储

The products should be used on a “first in, first out” basis to avoid storage contamination, see latest valid customer drawings too.

为避免存储污染，产品应以“先进先出”的原则使用，也请参见最新的有效客户图纸。

4 ASSEMBLY INSTRUCTIONS 组装说明

4.1 Plug HSG assembly 母端组装

4.1.1 Insertion MCON 1.2 terminal MCON 1.2 端子的插入

Wire size for contact refers to TE customer drawing.

端子使用的线径参考泰科客户图纸。

Insert the terminal (as below direction) as far as the end of the spring engages and produce an audible click. Complete locking can be examined by gently pulling back the terminal.

按照如下方向插入端子，插入到位后有轻微咔嗒声。为确保插入到位，可轻微回拉线材检查。



Figure3 Insertion MCON 1.2 terminal 图 3 插入 MCON 1.2 端子

4.1.2 Locking TPA 锁上端子二次锁

Lock TPA to final position by pushing TPA out-side surface and produce an audible click.
按压二次锁外侧表面，使二次锁压入到位，到位后会有轻微咔嗒声。

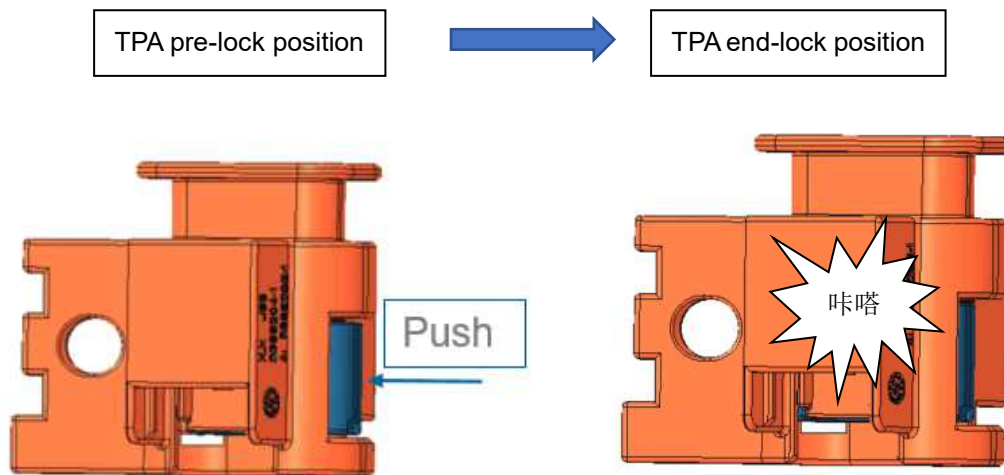


Figure4 Insertion TPA 图 4 插入端子二次锁

If the TPA does not fully close, move it to the OPEN position, ensure that all contacts are fully seated, then try again. **DO NOT forcefully insert the TPA to close position with one or more contacts in an incomplete (un-seated) position.**

如果二次锁无法组装到位，请将二次锁退到预锁位置，确认每个端子都插入到位后再次锁二次锁。
切不可在端子未装配到位时强行锁上二次锁。

4.2 Mating plug hsg assy with tab hsg assy 连接公母端

4.2.1 Mating to pre-position of connectors 装配到预锁位置

Mate the connectors to pre-position by pushing the top surface of the plug hsg or tab hsg.
按压母端或公端塑壳顶面，使连接器对配到预装位置，预装位置如下图 6 右图所示。

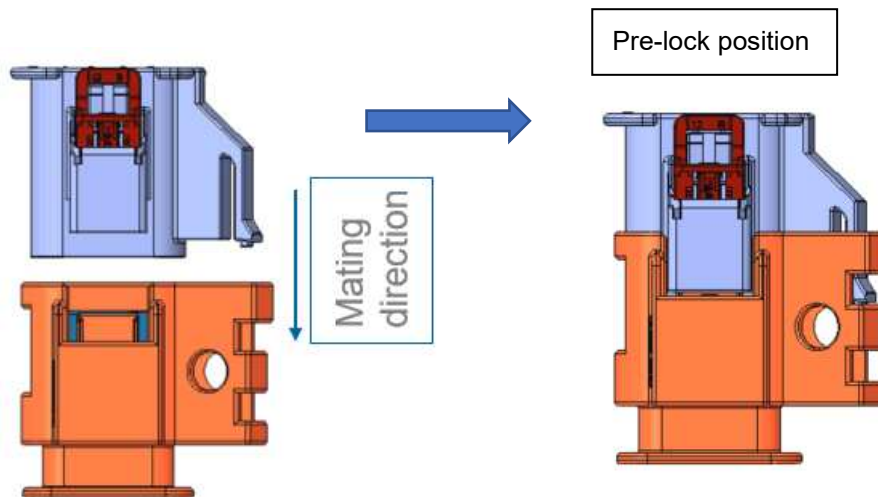


Figure5 Mating to pre-position 图 5 装配到预装位置

NOTE: In pre-position, you must use a padlock, Ø4.5 till Ø5.5mm, for car service.

注意：汽车维修时，在预装位置，必须使用一个挂锁，挂锁直径 4.5 至 5.5mm。

4.2.2 Mating from pre-position to end position 预装位置组装到位

Mate the connectors from pre-position to end position by pushing the side latch at first, then pushing the top surface of the tab hsg.

将连接器从预装位置组装到位，需先按压公端塑壳的侧边弹壁，再按压公端塑壳的顶面。

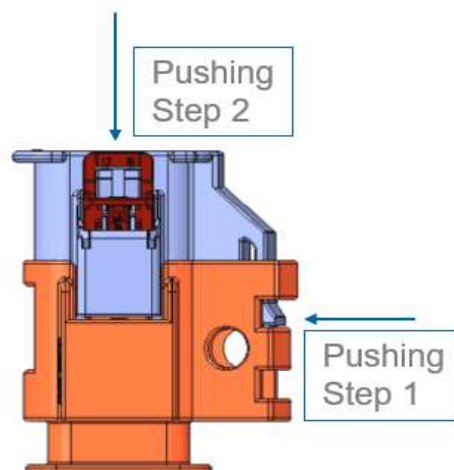


Figure6 Step of pushing 图 6 按压步骤

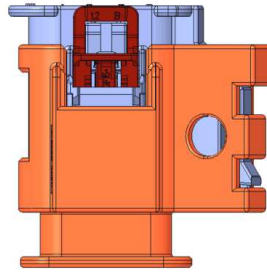


Figure7 Connector end position 图 7 连接器终止位置

DO NOT forcefully insert the tab hsg by pushing the top surface's corner of it.
不要通过按压公端塑壳表面的一角去强行装配。

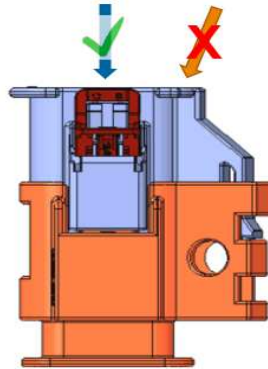


Figure8 Pushing position 图 8 按压位置

4.3 Locking CPA 锁上 CPA

Lock the CPA by pushing the top flat surface of the CPA and produce an audible click.
按压 CPA 上表面，使 CPA 锁压入到位，到位后会有轻微咔嗒声。

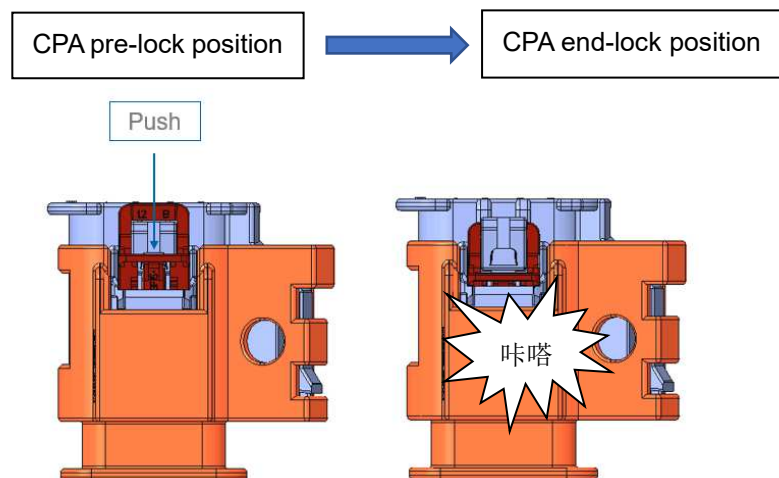


Figure9 Locking CPA 图 9 锁上 CPA

5 DISASSEMBLY INSTRUCTIONS 拆装说明

5.1 Open CPA to pre-lock position 将 CPA 退回预锁位置

Open the CPA by pushing the flat surface of the CPA to pre-lock position.
推动 CPA 的平面，使 CPA 回到预锁位置。

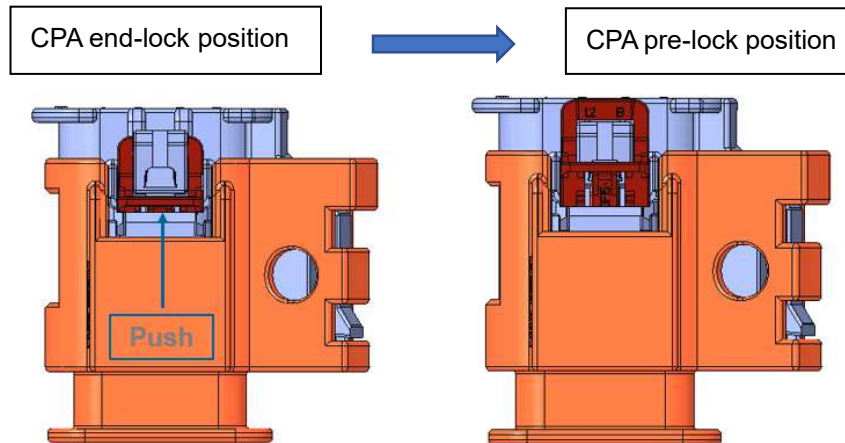


Figure10 Open CPA 图 10 打开 CPA

5.2 Unmating connector to pre-lock position 将连接器退回到预锁位置

Unmate connector by pull out the plug hsg to pre-lock position.
通过拉拔母端将连接器退到预锁位置。

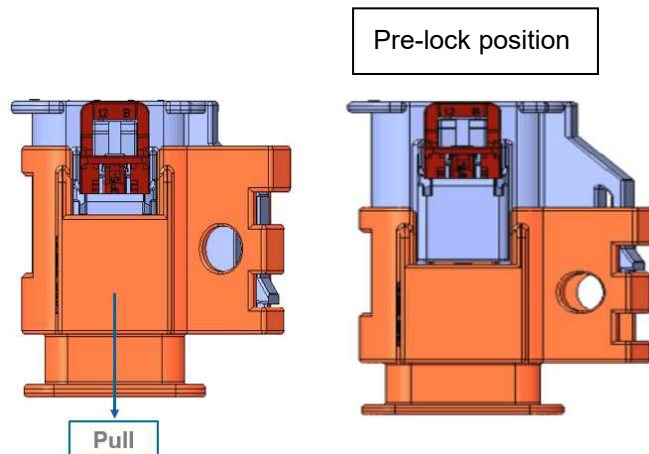


Figure11 Unmate connector 图 11 退回到预锁位置