

# Application Specification

Rev. C 07-Jul-2020

## 2P JPT REC CONNECTOR SEALED

#### 1. General

This application specification shows the following connector information:

- 2P JPT REC Connector Sealed

### 1.1. Purpose

This application specification includes the guidelines to be followed during assembly, installation and disassembly of the 2P JPT REC CONNECTOR SEALED. These requirements are applicable to TE contacts when crimped with TE crimping tools and machines.

### 1.2. Customer Drawing

The latest valid customer drawings shown are for this guideline:

Туре	Name	Drawing No.
Connector drawing	2POS, JPT, REC HSG ASSY, SLD, COD NEUT	2819609
Product specification	Product specification for 2P JPT Connector sealed	108-37114
Junior Power Timer drawing	Product Group Drawing for Junior Power Timer Contact Type A	1355047
Product specification	Product Specification for Junior Power Timer contact	108-18013
Application specification	Application Specification for Junior Power Timer Contact	114-18050

Table 1

# 2. Product description

2.1.1. As supplied product





2.1.2. Assembled view





2.1.3. Exploded View



Figure 4





## 3. Application of the 2P JPT REC Connector

The following procedure assumes that the contacts, in accordance with TE customer drawing, have been properly crimped. For the JPT contacts, please refer to the Specifications listed in Table 1.

DO NOT push the contact into the contact cavity with forces if a hard stop is detected. If there is resistance, pull the contact out, ensure proper orientation, and re-insert the contact. If the TPA is locked, unlock the TPA according to Figure 15 (item 3.5) before inserting the terminal.





Figure 7

The JPT contacts must be correctly oriented and inserted into the cavity, until the steel spring engages. That ensures the contact is locked properly.

The contacts produce an audible click (see Fig.8). Complete locking of the terminals can be verified by gently pulling back on the contact.



Figure 8

3.2. Closing the Terminal Position Assurance (TPA)

After loading of the housing with terminals, the TPA must be closed from the pre-staged position (Fig. 9) to the end-locked position (Fig.10).



### 3.3. Mating the REC Connector to interface/counter part

To create a correct connection please ensure the following points:

- 1. The internal polarization rib is orientated correctly before the parts are pushed together.
- 2. The TPA in the socket housing is in the locked position (Fig.10).

The housing should be correctly positioned and orientated before assembling (Fig.11). Then it can be pressed until fully locked. The correctly assembled connector set will result in an audible click (Fig.12).



Figure 12

3.4. Unmating the REC Connector to interface/counter part

The locking latch must be pressed downwards (Figure 13). With the latch pressed down, the connector can be separated (figure 14)



### 3.5. Removing the terminals from the connector

To remove the terminals from the connector, a tool needs to be inserted underneath the bottom of the TPA (carefully to do not damage the seal) and move the TPA to preposition. (Fig. 15).





Insert the extractor into the cavity and remove the terminal (the extractor has the function of unlocking the terminal lances) (Fig. 16).

Special care should be taken regarding the extraction tool orientation (Fig 17).





Figure 17

# 4. Extraction Tool

The following drawings show the design of the extraction tool for the 2P JPT Connector (Fig 18 and 19)







Histórico de Revisões							
Rev.	Data	Descrição	Editado	Checado	Aprovado		
Α	02-Oct-2019	Initial release	R. Kazuo	G. Bonucci	D. Oliveira		
В	04-Oct-2019	Added extraction tool information	R. Kazuo	G. Bonucci	D. Oliveira		
С	07-Jul-2020	Added note regarding TPA unlock	R. Kazuo	D. Oliveira	D. Oliveira		