

The product described in this document has not been fully tested to ensure conformance to the requirements outlined below. Therefore, TE Connectivity (TE) makes no representation or warranty, express or implied, that the product will comply with these requirements. Further, TE may change these requirements based on the results of additional testing and evaluation. Contact TE Engineering for further details.

JPT INJECTOR 2P PLUG ASS'Y

1. SCOPE

1.1. Content

This specification covers the requirements for product performance, test methods and quality assurance provisions of JPT Injector 2P Plug ASS'Y

1.2. Qualification

When tests are performed on the subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

1.3. Qualification Test Results

Successful qualification testing on the subject product line has not been completed. The Qualification Test Report number will be issued upon successful qualification testing.

2. APPLICABLE DOCUMENTS AND FORMS

The following documents and forms constitute a part of this specification to the extent specified herein. Unless otherwise indicated, the latest edition of the document applies.

2.1. TE Documents

• 936139: Customer Drawing (JPT INJECTOR PLUG ASS'Y)

3. **REQUIREMENTS**

3.1. Design and Construction

Product shall be of the design, construction, materials and physical dimensions specified on the applicable product drawing.

3.2. Ratings

Voltage	Temperature	Humidity
12V DC	25±5°C	65±20%

3.3. Test Requirements and Procedures Summary

Unless otherwise specified, all tests shall be performed at ambient environmental conditions.

TEST DESCRIPTION	REQUIREMENT		PROCEDURE			
Appearance	No crack, damage, distortion are permitted		Using sense of sight and touch.			
CONN engage and disengage force	Max 10.0kgf and less		Measure force by terminal assemble remove lock part	inserting and ed at constan when measur	l disengaging t 100 mm/min ing disengage	the connector with speed. However, force.
Reverse insertion between housings	It shall not be incorrectly inserted by applying force of 20kgf.		Insert the housing with terminal by pushing it in reverse direction with applying 20kgf.			
Reverse insertion between terminal and housing	Min 5kgf or more		Crimp cable of maximum size on terminal and then, insert it into housing by the end of insulation			
Strength of HSG lock	Min 10kgf or less		Combine housing only, fix the one side of housing in completely locked condition, and extend the other side in axial direction and 30 angle direction at a constant speed of 50mm/min. Then measure weight when lock structure is disengaged or destroyed.			
Terminal retention force	Min 6kgf		Fix the housing after inserting crimped terminals. Extend one line of cable in axial direction at a speed of 50mm/min at a position 50~100mm away from crimped part, and measure weight when terminal is disengaged from the housing.			
Terminal engage and	Engage	0.3~1.5kgf	As shown in figure or steel gauge int speed.	e 4-3, engage o or from fem	and disenga ale terminal a	ge male terminal t 50 mm/min
disengage force (kgf)	Disengage	0.15~1.5kgf		Steel	Fe	male
Voltage Max 3mV/A Drop		Measure the circu current described the connector. Then calculate a by subtracting cal drop (V). 1)HAR	voltage drop (ovoltage drop (ole resistance) NESS versus Open voltage 20 + 5 m/	p (V) by sendi -1 with termina (VD) in termina (L) from the c UNIT:VD =V(Short circuit current	ng voltage and al combined on al sircuit voltage L3+L4) Division	
			Power circuit	13.V	14	Other than the above
			· Sciencestin	<tab< td=""><td>le5-1></td><td></td></tab<>	le5-1>	
Cold and hot temperature shock test	Appearance	No crack, damage, distortion are permitted	Engage and diser times with hands, condition. (ENG F	ngage Connect this repeats 2 ROOM : 120°C	ctor with termi 200 CYCLE by C, ENG ROOM	nal assembled 10 / below test 1 except : 80°C)
	Voltage Drop	Max 10mV/A				
	Sealing	Min 0.5kgf/cm ²				



				(*) Normal temperature -40°C T1 T2 T1 T2 T1 ≤ 5 minutes T2 = 1 hour			
Waterproof Test	Appearance	No crack, damage, distortion are		Make combined connectors engaged and disengaged 10 times t hands, and leave it in combined state at 120 $^{\circ}$ C ambient temperature for 10 minutes and then ensure that a state of neuronal temperature for 0.			
	Insulation Resistance	Min 100 MΩ	Between terminals housing surface	minutes according to S2 of JIS D0203. Repeat 48 cycles of this * JIS D0203 S2 condition: attach specimen at 400mm distance the waterproof pipe with water spray hole or water discharge ho and rotate waterproof pipe 23 times per minute around the axis.			
	Current Leakage	Max 100 #A					
	Sealing	Min 0.5kgf/cm ²					

3.4. Applied Part No List

TE Part no	Description
936139-1	JPT INJECTOR PLUG ASS'Y