



Test Report

Report No: ZTWBG191022001-0002EG

Date: October 28, 2019

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Applicant Name: H.T.P. High Tech Products S.R.L.

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Sample Information:

Sample Name	Sample No.	Sample Model	Amount of Sample	Sample Description
Connector	ZTW191022001-009	M8 series without wire	1set	Normal
Connector	ZTW191022001-010	M12 series without wire	1set	Normal

Test Information:

Test Item: IP67

Test Standard: GB 4208-2008

Sample Received Date: October 22, 2019

Sample Tested Date: October 23, 2019-October 28, 2019

Test Results:

See page 2 and page 3 please.

Report Stamp



Approved by:

Gordon

Test Engineer:

Hardy

Disclaimer: This report is responsible only for those who are Received sample and without Test Report Stamp is invalided.

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**Test Item 1: IP6X****1.1 Test environment:**Temperature: $(23 \pm 5)^{\circ}\text{C}$; Humidity: $(50 \pm 10)\% \text{RH}$ **1.2 Test sample:**

Sample Name	Sample No.	Sample Model	Amount of Sample
Connector	ZTW191022001-009	M8 series without wire	1set
Connector	ZTW191022001-010	M12 series without wire	1set

1.3 Test equipment:

Equipment Name	Equipment Model
Dust chamber	XR-SC225

1.4 Test standard: GB 4208-2008**1.5 Test Description:**

- (1) Test needle with diameter of 1mm is placed close to the enclosure of the sample to see if it can enter the enclosure gap.
- (2) Place the sample into the dust chamber and the pressure in the sample is kept below atmosphere pressure by a vacuum pump; talc powder content in the chamber is 2kg/m^3 ;
- (3) Use pressure difference to pump air into the equipment and the pressure difference is no more than 2KPa; pumping speed is below 40 enclosure volume per hour and the testing time is 8 hours;
- (4) After test check if there is ingress of dust inside the enclosure of the sample.

1.6 Test result:

Test item	Sample No.	Test result
IP6X	ZTW191022001-009	The needle with diameter of 1mm can not enter the enclosure gap of the sample; no ingress of dust observable inside the enclosure of the sample.
	ZTW191022001-010	The needle with diameter of 1mm can not enter the enclosure gap of the sample; no ingress of dust observable inside the enclosure of the sample.

**Test Item 2:IPX7****2.1 Test environment:**Temperature:(23 ± 5)°C;Humidity:(50 ± 10)%RH**2.2 Test sample:**

Sample Name	Sample No.	Sample Model	Amount of Sample
Connector	ZTW191022001-009	M8 series without wire	1set
Connector	ZTW191022001-010	M12 series without wire	1set

2.3 Equipment of test:

Equipment Name	Equipment Model
Pool	-

2.4 Standard of test: GB 4208-2008**2.5 Test Description:**

- (1)Place the sample in the pool and keep the bottom of the sample from the water surface 1000mm;
- (2)Testing time is 30 minutes;
- (3)After test check if there is infiltration of water inside the sample.



2.6 Test result:

Test item	Sample No.	Test result
IPX7	ZTW191022001-009	No infiltration of water observable inside the enclosure of the sample.
	ZTW191022001-010	No infiltration of water observable inside the enclosure of the sample.





Appendix: Test photos



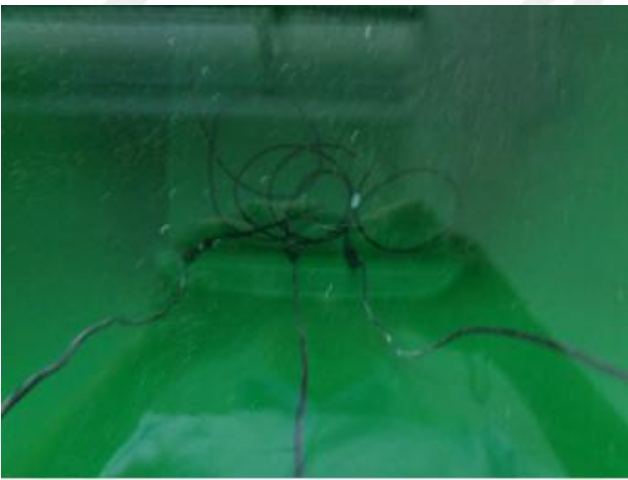
Before test

	
<p>Sample(ZTW191022001-009)</p>	<p>Sample(ZTW191022001-010)</p>

During testing





	
<p>IP6X Testing for sample-ZTW191022001-009(1)</p>	<p>IP6X Testing for sample-ZTW191022001-009(2)</p>



	
<p>IP6X Testing for sample-ZTW191022001-010(1)</p>	<p>IP6X Testing for sample-ZTW191022001-010(2)</p>
	<p>/</p>
<p>IPX7 Testing</p>	<p>/</p>



After test

	
After IP 6X Test-Sample-ZTW191022001-009(1)	After IP 6X Test-Sample-ZTW191022001-009(2)
	
After IP 6X Test-Sample-ZTW191022001-010(1)	After IP 6X Test-Sample-ZTW191022001-010(2)



After IP X7 Test-Sample-ZTW191022001-009(1)



After IP X7 Test-Sample-ZTW191022001-009(2)



After IP X7 Test-Sample-ZTW191022001-010(1)



After IP X7 Test-Sample-ZTW191022001-010(2)

—————End of report—————