



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

报告编号/ Reference No..... : WTZ22F03059109G  
委托方/ Applicant..... : 惠州玉铨新材料有限公司  
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制造商/ Manufacturer..... : 惠州鼎元电子材料有限公司  
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地址/ Address..... : 4th Floor, No. 1, Huifeng Dongyi Road, Zhongkai High-tech Zone,  
Huizhou Guangdong  
产品名称/ Product Name.... : 焊锡环中接管 / Solder Seal Heat Shrink Wire Connector  
型号/ Model No..... : See model list on page 2  
测试规范/ Test specification..... : Degrees of protection provided by enclosures (IP Code)  
IEC 60529:1989+A1:1999+A2:2013  
收样日期/ Date of Receipt sample..... : 2022-03-31  
检测日期/ Date of Test..... : 2022-04-02 to 2022-04-07  
签发日期/ Date of Issue..... : 2022-04-15  
模板编号/ Test Report Form No..... : WST-133188-03A  
检测结果/ Test Result..... : Pass

## Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

## Prepared By:

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## List of test items:

No.	Test Items	Requirement + Test	Result
1	IP67 Test	IEC 60529:1989+A1:1999+A2:2013	Pass

## Subcontract

Whether parts of tests for the product have been subcontracted to other labs:

Yes  No

If Yes, list the related test items and lab information:

Test items: --

Lab information: --

## Remarks:--

## 1. Model list

SST-S11, SST-S21, SST-S31, SST-S41, SST-S51, SST-S61, SST-S71, SST-R11, SST-R21, SST-R31, SST-R41, SST-R23, SST-R33, SST-R43, SST-H-11, SST-H-21, SST-H-31, SST-H-41, SST-SR01, SST-SR02, SST-SR03, SST-SR04, SST-R12, SST-R22, SST-R32, SST-R42, SST-S12, SST-S22, SST-S32, SST-S42.

2. IP67 test was carried out on model SST-S31.

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**Test Item:**

Tests for protection against dust-proof: IP6X

**Test Method:**

The tests should be carried out under the standard atmospheric condition.

The atmospheric conditions during tests are as follows:

Temperature range: 15 °C to 35°C. Relative humidity: 25% to 75%.

The test is made using a dust chamber incorporating the basic principles shown in figure 2 where by the powder circulation pump may be replaced by other means suitable to maintain the talcum powder in suspension in a closed test chamber. The talcum powder used shall be able to pass through a square-meshed sieve the nominal wire diameter of which is 50µm and the nominal width of gap between wires 75 µm. The amount of talcum powder to be used is 2 kg per cubic meter of the test chamber volume. It shall not have been used for more than 20 tests.

Enclosures are of necessity in one of two categories:

Category 1: Enclosures where the normal working cycle of the equipment causes reductions in air pressure within the enclosure below that of the surrounding air, for example, due to thermal cycling effects.

The enclosure under test is supported inside the test chamber and the pressure inside the enclosure is maintained below the surrounding atmospheric pressure by a vacuum pump. In no event shall the depression exceed 2 kPa(20mbar) on the manometer shown in figure 2. If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2h. The extraction rate is less than 40 volumes per hour, the test is continued until 80 volumes have been drawn through, or a period of 8h has elapsed.

Category 2: Enclosures where no pressure difference relative to the surrounding air is present.

The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8h.

The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.

The test wire of 1.0 mmφ insert into any openings of the enclosure with a force of  $1N \pm 10\%$ .

**Acceptance Conditions:**

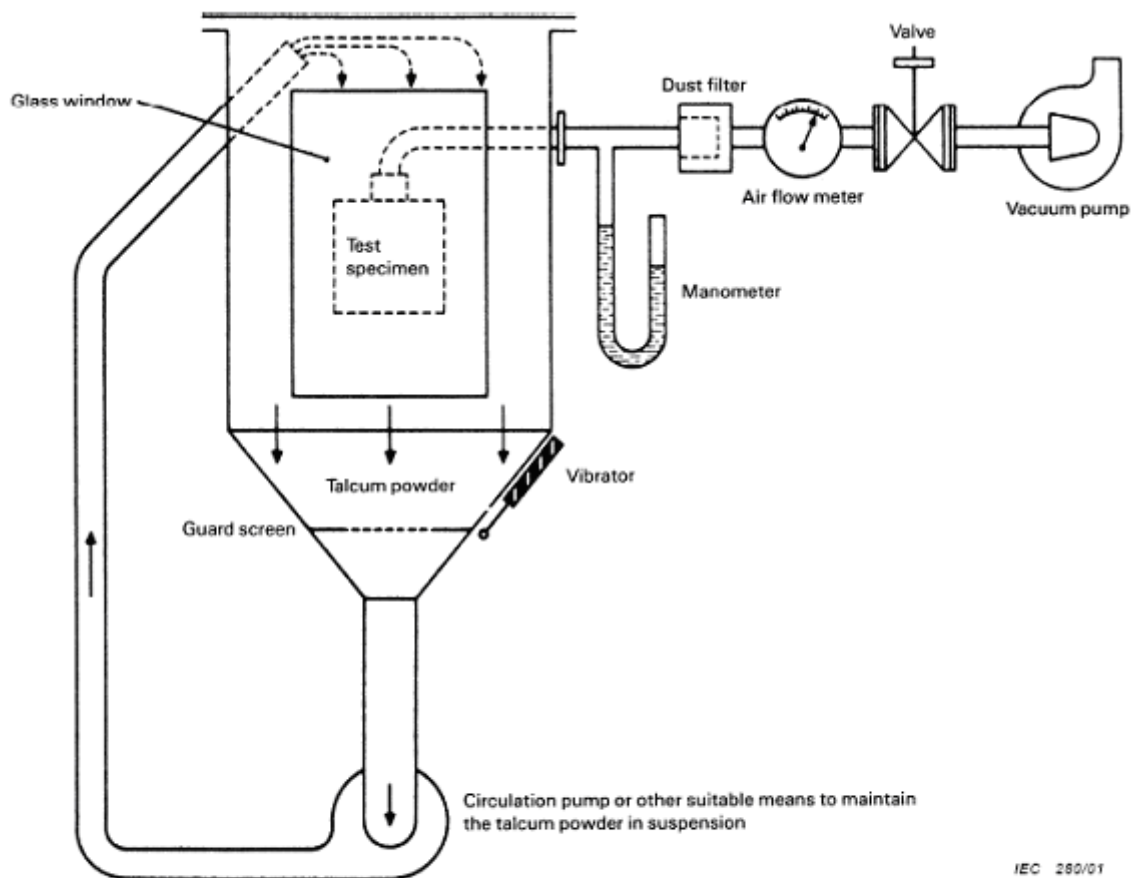
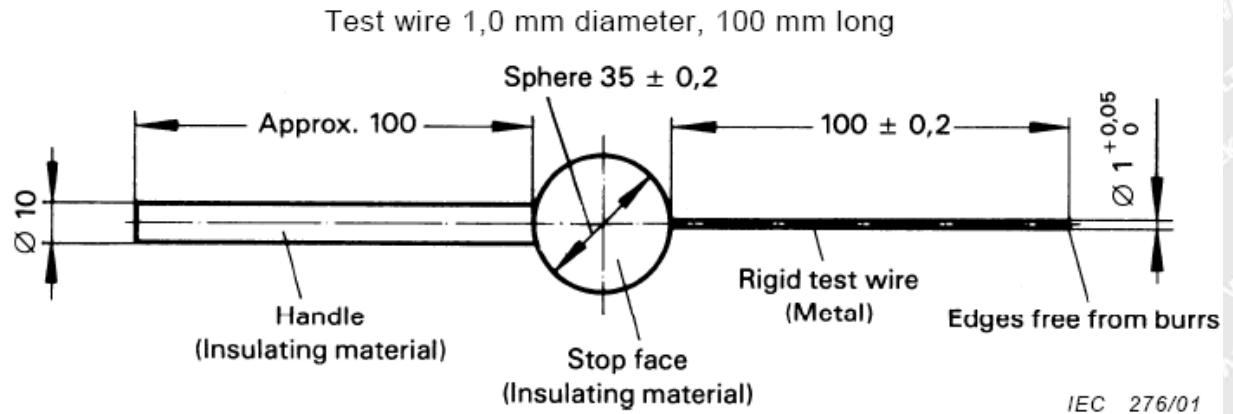
The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.

The protection is satisfactory if adequate clearance is kept between the access probe and hazardous parts.

The protection is satisfactory if the access probe 1.0 mm diameter shall not pass through the any opening.

**Test Result:**

Pass  Fail



NOTE See IEC 60068-2-68, figure 2 valid for La2 only.

Figure 2 – Test device to verify protection against dust (dust chamber)

**Test Item :**

Tests for protection against ingress moisture: IPX7

**Test Method:**

The tests should be carried out under the standard atmospheric condition. The atmospheric conditions during tests are as follows:

Temperature range: 15 °C to 35 °C; Relative humidity: 25% to 75%.

The tests are conducted with fresh water.

The test is made by completely immersing the enclosure in water in its service position as specified by the manufacturer so that the following conditions are satisfied:

—the lowest point of enclosures with a height less than 850 mm is located 1 000 mm below the surface of the water;

—the highest point of enclosures with a height equal to or greater than 850 mm is located 150 mm below the surface of the water;

—the duration of the test is 30 min;

—the water temperature does not differ from that of the equipment by more than 5 K. However, a modified requirement may be specified in the relevant product standard if the tests are to be made when the equipment is energized and/or its parts in motion.

**Acceptance Conditions:**

After testing in accordance with the appropriate requirements, the enclosure shall be inspected for ingress of water.

It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any.

In general, if any water has entered, it shall not:

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

**Test Result:**

Pass  Fail



Photo Documentation:

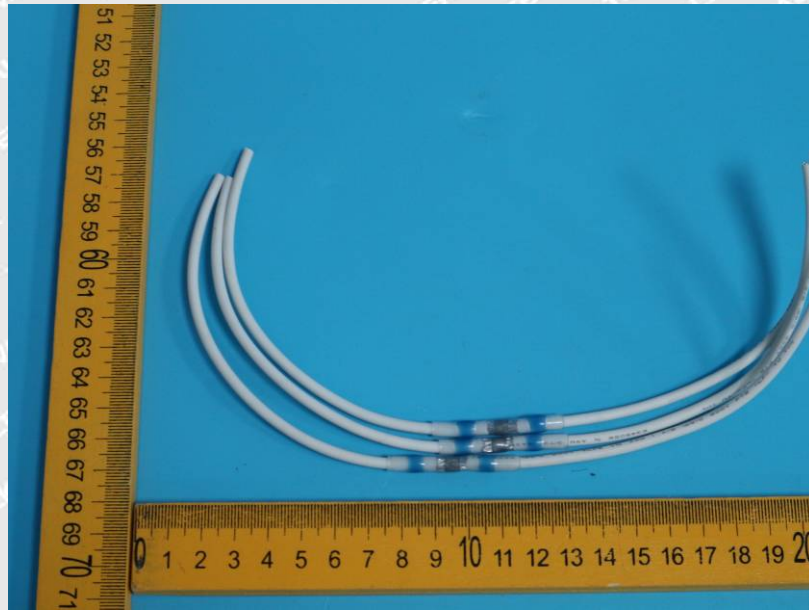


Photo 1 -- SST-S31



Photo 2 -- After IP6X test



Photo 3 -- After IPX7 test

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## Equipment Used during Test :

Equipment	Model/Type	Due Date
Temperature & Humidity Datalogger	622	2023-02-27
Dustproof chamber	HY-FCX	2023-02-27
Probe	FZ-1107-A	2023-02-27
Protection against water test device	KXT1318	2023-02-27
Tape Measure	3m	2023-02-27
Clock	PC397	2023-02-27
Dielectric & Insulation Resistance Tester	9012	2023-02-27

===== End of Report =====

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