



中国认可
国际互认
检测
TESTING
CNAS L3150



TEST REPORT

Product Name : Cable entry plate
Model Number : See below model list

Prepared for : FuYanSheng Electronic (Fujian) Co., Ltd
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Report Number : EDG2211220029L00105R
Date(s) of Tests : November 24, 2022 to November 29, 2022
Date of issue : December 05, 2022



Test Report

Applicant : FuYanSheng Electronic (Fujian) Co., Ltd

Address : Floor 4, Workshop No.5, Bailong 398, Bailong Village, Zhuqi Township, Minhou County, Fuzhou City

Product Name : Cable entry plate

Model/Type : See below model list

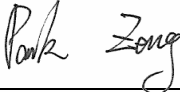
Received Date : November 22, 2022

Testing Period : November 24, 2022 to November 29, 2022

Test Summary

No.	Test Item	Test Standard	Test Conclusion
1	IP54 Test	IEC 60529:1989+A1:1999+A2:2013 COR1:2019	Pass

Note:
 Pass: Meet the requirements;
 Fail: Do not meet the requirements;
 N/A: Do not evaluate or provide only test results.

Tested by: 

Park Zeng

Tested engineer

Reviewed by: 

Koro Zhang

Reviewed engineer



Test Report

Model list		
Product Name	Model name	Description
Cable entry plate	SF 4X1-006, SF 4XN, SF 4XN+2XN, CM 20w40, CM40, CM40 10-32, CM15, CM15W40, CM30W40, RM20, RM20W40, RM30, RM40, RM60, PM20, PM20W40, PM40	All models have same construction.
Note: According to applicant's request, chosen SF 4X1-006 to perform all tests.		



Test Report

1. Test Item: IP54 Test

1.1 Tested Sample:

Sample No.	Product Name	Model/Type	Quantity
E2211220029-09	Cable entry plate	SF 4X1-006	1pc
E2211220029-10	Cable entry plate	SF 4X1-006	1pc

1.2 Test Equipment:

Name	Model	Serial No.	Valid Date to
Probe D	/	ELD0138	May 17, 2023
Waterproof test chamber	GT1310B	E-R-033	April 20, 2023
Dust Tester	GT1321C	E-R-034	May 12, 2023

1.3 Environmental Conditions: Temperature: 25°C; Humidity: 56%R.H.

1.4 Reference Standard: IEC 60529:1989+A1:1999+A2:2013 COR1:2019

1.5 Test Conditions:

IP5X

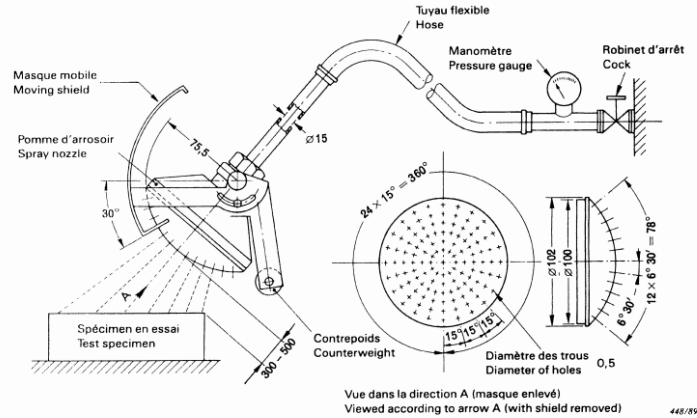
Use the Φ 1mm access probe to detect the opening, the force is 1N.

The sample was placed in the test chamber, the amount of talcum powder to be used is 2 kg per cubicmeter of the test chamber volume. During the test, the sample was kept in a vacuum state with a maximum depression of 2 kPa (20 mbar), If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h.

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IPX4

Conditions when using the test device as in Figure 5(spray nozzle):



Dimensions en millimètres

121 trous de 0,5 de diamètre:
1 trou au centre
2 cercles intérieurs de 12 trous à 30°
4 cercles extérieurs de 24 trous à 15°
Masque — Aluminium
Pomme d'arrosoir — Laiton

Dimensions in millimetres

121 holes of Ø 0.5:
1 hole at the centre
2 inner circles of 12 holes at 30° pitch
4 outer circles of 24 holes at 15° pitch
Moving shield — Aluminium
Spray nozzle — Brass

Figure 5 — Hand-held test device to verify protection against spraying and splashing water; second characteristic numerals 3 and 4 (spray nozzle)

The counterbalanced shield is removed from the spray nozzle and the enclosure is sprayed from all practicable directions.

The water pressure is adjusted to give the specified delivery rate. The pressure to achieve this delivery rate will be in the range of 50 kPa to 150 kPa.

It should be kept constant during the test. The test duration is 1 min/m² of the calculated surface area of the enclosure (excluding any mounting surface), with a minimum duration of 5 min.

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1.6 Acceptance Criteria:

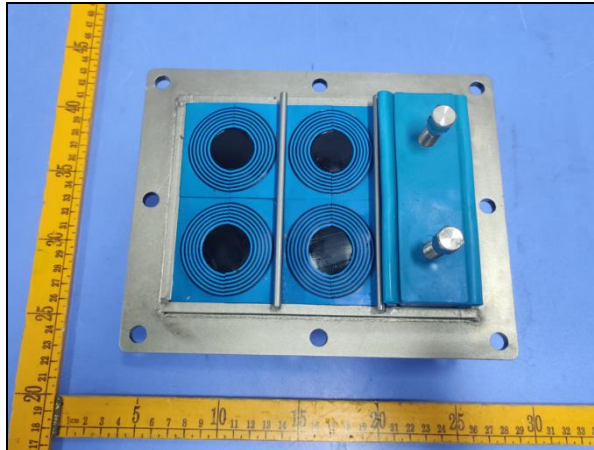
<p>IP5X:</p> <ol style="list-style-type: none"> 1. The test Probe cannot enter into the interior of the sample. 2. Talcum powder has not accumulated in a quantity or location which could interfere with the correct operation of the equipment or impair safety.
<p>IPX4:</p> <p>After testing in accordance with the appropriate requirements. The enclosure shall be inspected for ingress of water.</p> <p>In general, if any water has entered, it shall not:</p> <ul style="list-style-type: none"> - 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.

1.7 Test Results:

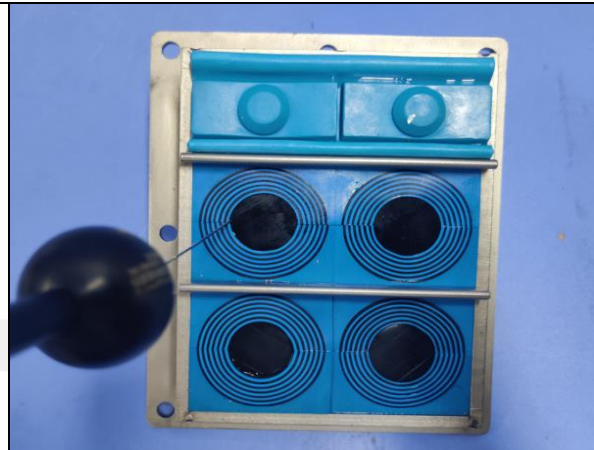
Sample No.	Test items	Test Results	Verdict
E2211220029-09	IP5X	Test probe did not enter into the interior of the sample. There is no talcum powder in the sample.	Pass
E2211220029-10	IPX4	There was no water enter the sample.	Pass

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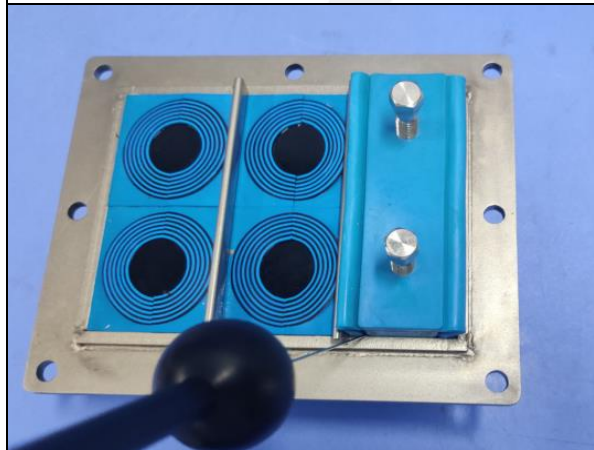
1.8 Test Photos: IP5X



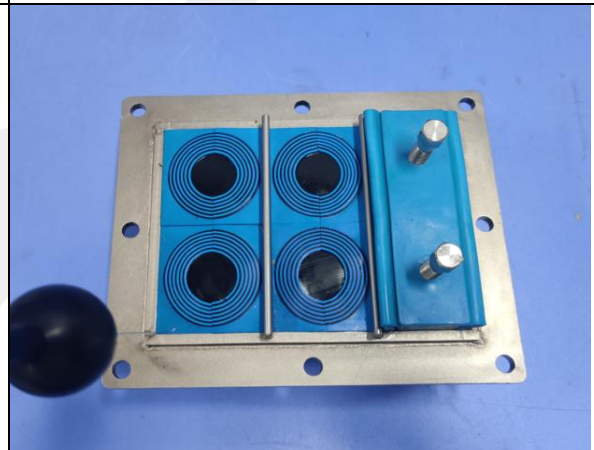
Before the test



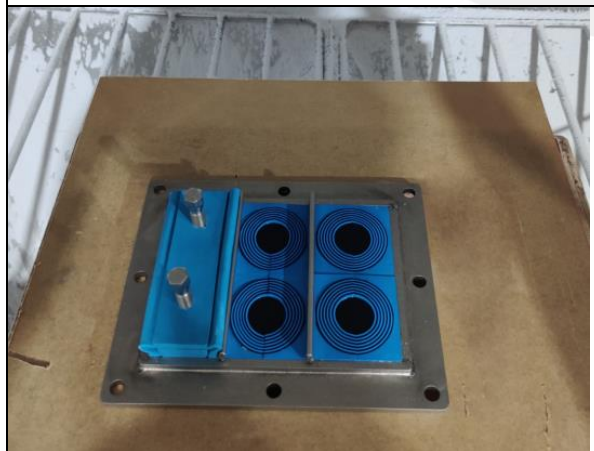
Probe test



Probe test



Probe test

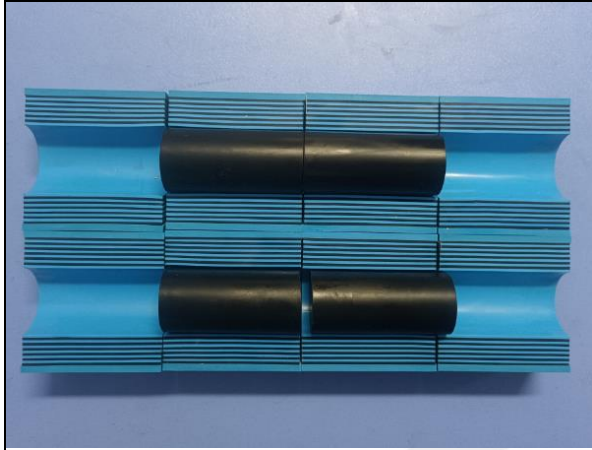


Before IP5X test

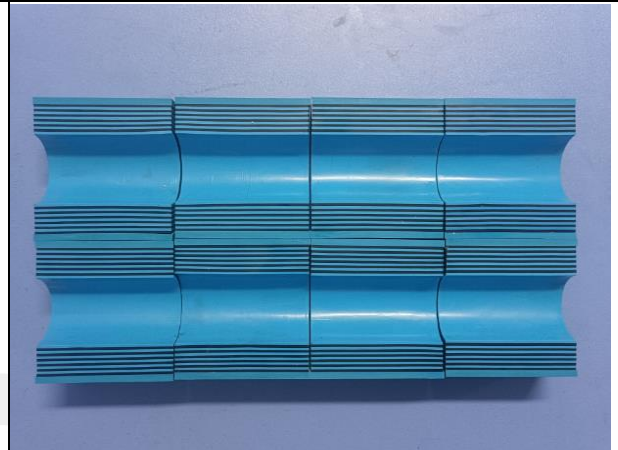


After IP5X test

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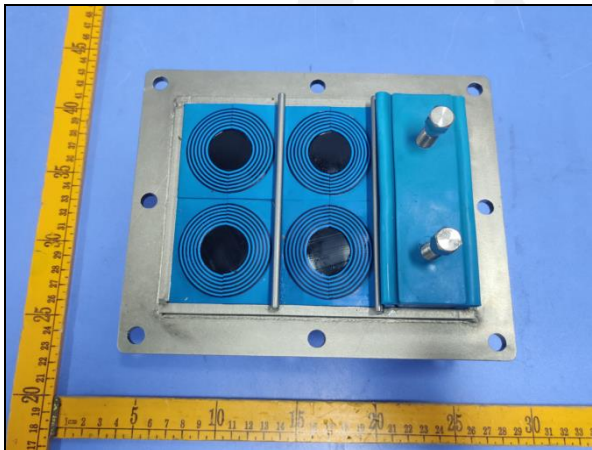


Check after test

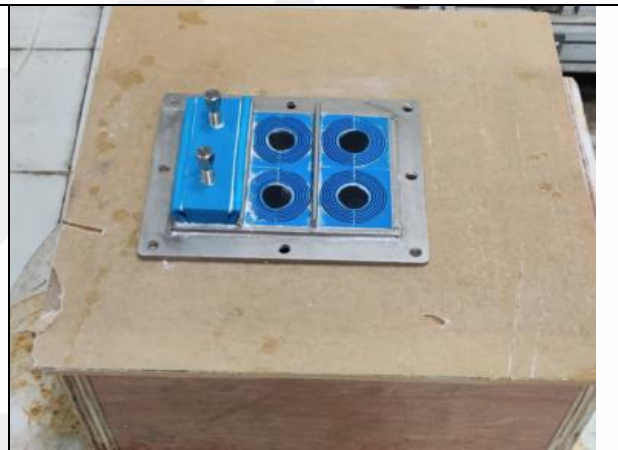


Check after test

1.9 Test Photos: IPX4



Before the test



Before the test

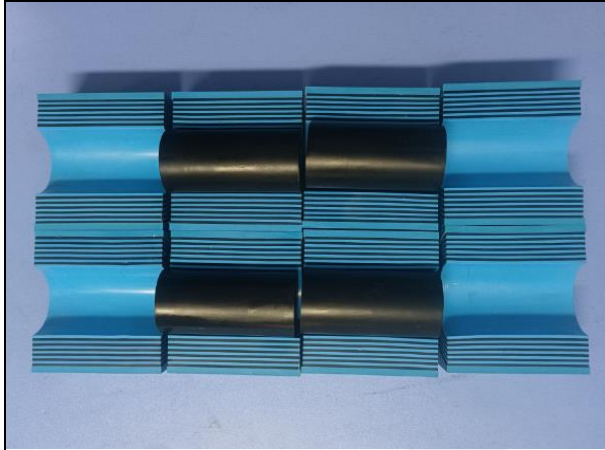


During the test

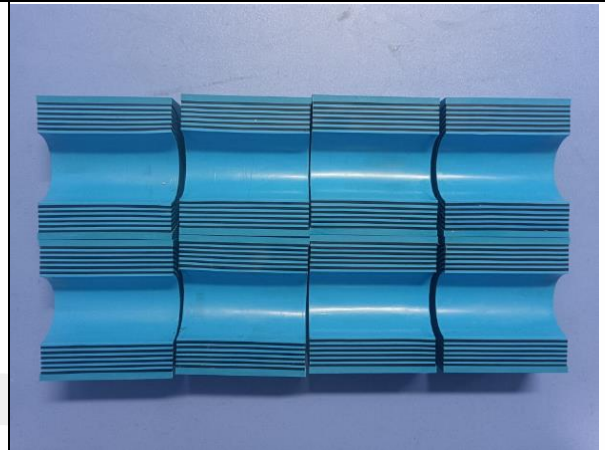


After the test

Test Report



Check after test



Check after test

End of report

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